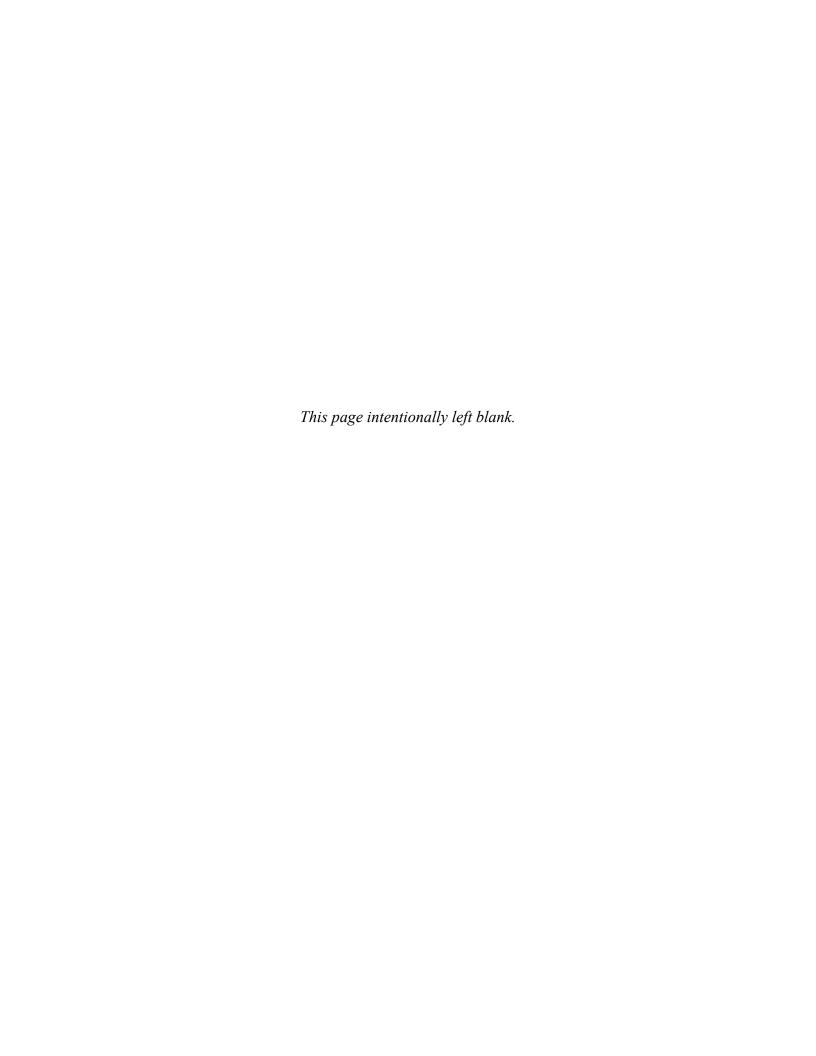
APPENDIX B BORING, CPT, AND WELL INSTALLATION LOGS



Projec	t	برڪ	4IA				Logged By € · Cilleva Boring No. ≤AIA - SBI
Project Number 67/63.0064						xy	Date Drilled
Location Seam Masters							Total Depth Boring Location Sketch
Surfac	e El	evation	l		u/a		Boring Diameter Z"
	I T						Drillers _ Origg Drilling
Feet)	Sample Interva	ounts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	ogy /	Method
Depth (Feet)	ıl əldı	Blow Counts	ID (p	ater	We	Lithology / USCS	·
ď	San	ā	B-zc	>	ŏ		DESCRIPTION
0.5							Foorly graded sand; loose; light brown & olive gray; dry; 951. five sand; 51. fives.
- z	\vdash						No change.
							/ -
-5							Poorly graded sand; loose; brown & queenish gray;
<u> </u> -							Poorly graded sand; loose; brown & greenish gray; dry; mostly time sand; trace fines.
⊩	\vdash		į		,		the state of the s
<u>-</u> 15							Poorly graded sand; loose; yellowish brown a olive gradomp; 90%. fine sand; 10% fines.
							-10 77, 7122 30, 10 7, 7, 7, 722 1
ŀ							
- 25				ļ			
							Silty sand; med stiff; light brown; domp; 50%. fine sand; 50%. fines. low plosticity.
 -	-						, so some, so i. yines. too pre-
-35	;						Poorly graded sand; loose; olive gray a light gray; dry; OS; med to fine sand; 15 % fines.
-							05% med to fine sand; 15% fines.
 	-						
 	_						
<u> </u> -							
 -							
	-						
	<u>.</u>	<u> </u>	1		<u></u>	Casing D	iameter Casing Length From To
						_	en Size Screen Length From To
					_		Sand Type From To
							Bentonite Type From To
	Щ		Tech Solut		cai ns, In	r	Cement/Grout From To Surface Completion
			JUIU	UU	119, III	U.	Surface Completion

;

Project SAJA							Logged By	e Gillera	Boring No. SAIA - SBO3
Project Number 07/63.0064							Date Drilled	4/1/13	Sheet/ Of/_
Location <u>Seam Masters</u>							Total Depth	35'	Boring Location Sketch
Surface Elevation h/a							Boring Diameter	2"	
	- -							gg Drilling	,
(Feet)	Interv	counts	ppm) m/sample	Level	ell 'uction	logy / CS	Method div	rotpush	
Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology , USCS		DESCRIPTION	
-0.5 -2 - -							No change.	ostly time sands,	
_ - - 									ray; dry; GD 1. fine sand;
- - - -							damp;	50 %. fine sand	gray & dark gray; 50 1. fines; lowplasticity
- - - - 35							No change.		
- - - - - - - - - - - - - - - - -							97.0	y. yna gana, y	
					C	_	ameteren Size	·	From To
						Scre	CII 312C	· · · · · · · · · · · · · · · · · · ·	From To From To
		TERRETER -	nno						FromTo
	ĮΚ	* BSS	Tech						From To
			SOIU1	(IO	ns, In	C.		Surface Completion	

Projec	t	SŁ	ΠA				Logged By E. Giltera Boring No. SAIA-SB	4
Projec	t Nu	mber _	07	716	3.0	044	Date Drilled	
Locati	on _	5-10	m /	Na.	s tev s		Total Depth Boring Location Sketch	
Surfac	e Ele	evation	ı		n/a		Boring Diameter	(,
	<u>a</u>		a)				Drillers _ Gregg Drilling_	
(Feet)	Interv	ounts	opm) m/sampl	Level	ell uctior	ogy / CS	Method <u>direct</u> push	
Depth (Feet)	ample Interva	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION	
	Sa	ш	В					
-0.5							Poorly graded sand; loose; olivegray; dry; mostly five sand; trace fives.	
- Z -							No change.	
- -5								İ
_							Poorly gradedsand; loose; olive gray; dry 70%. und to fine sand; 30%. fines.	
	目							
	H							
-15						<u>.</u>	Sitty sand; med stiff; brown & dark gray; damp; mostly fine sand; 25 1. fines; med. plasticity.	
F	Н							
-25							Silty sard; soft; olive gray a dark gray; damp;	
							40 1. first fine sand; 40 1. fines; low plasticity.	
<u> </u>							No change.	
F								
F								
-	-					i		
					C	-	Diameter Casing Length From To	
						Scre	Screen Length From To Sand Type From To	
Innovative							Bentonite Type From To	
	LE		Tech Solui	ni(tio	cal ns, in	ıc.	Cement/Grout From To Surface Completion	
							Duriace Competion	

Project SAIA	Logged By E.Gillura	Boring No. SAIA - SBG
Project Number	Date Drilled 4 / 3 / 13	- Sheet(Of(_
Location Seam Mosfers	Total Depth	Boring Location Sketch
Surface Elevation	Boring Diameter 2"	
	Drillers _ Orego Drilling	_
eet) unts unts sample sevel ction Sy /		_
Depth (Feet) Sample Interval Blow Counts PID (ppm) B-zone/stem/sample Water Level Well Construction Lithology / USCS		
Blow Wa	DESCRIPTION	ON
- 0.5 - 2 	No change. Poorly graded sand; 100se; 75 1. fine sand; 25 Silty sand; med. stiff; 16 (D): time sand; 40%.	ight gray; damp; fines; med. plasticity.
-25	Poorly gracted sand; loos damp; las 1. fine sand	ght gray to dark gray; ad; 30% fines; med plasticit e; olive gray & light gray;
[] -	Diameter Casing Length een Size Screen Length	From To From To
Scr		From To
Innovative	Bentonite Type	From To
Technical Technical		From To
Solutions, Inc.	Surface Completion	

Project SAIA							Logged By _		E.Gillera	Borir	ng No	Sf	HA-	SBB	
Projed	ct Nu	mber _	07	16	3.00	064	Date Drilled		4/3/13	_	Sheet	1	_ Of _		
						5				Boring	Location	n Sketo	:h	4	
Surfa	ce El	evation		h	19		Boring Diame		•	-					
Depth (Feet)	Sample Interval	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS			read Drilling red push	-					
Depti	Sampl	Blow	PID B-zone/s	Wate	Cons	Lith			DESCRIPTIO	ON					
- 2 - 2 5 							Moderatel dry; Poorly grady; Sity Sand; Sard No change	and CCC m.	ded sand , loose , ded sand; loose , light , light , med , med , loose , loose , loose , med , loose , med , loose , dry ; 90%. med , med , loose , dry ; 90%. med	100se; d. to fice ; light 40 %. fice typay; typas	light e; to gray nes.	tgrae 190;	yd fine live	gray;	
	<u> </u>		1	<u>_</u>	(Lasing D	iameter					1			
						_	en Size		Screen Length						
			nno	ja:	ivo				Sand Type Bentonite Type						
Innovative Technical									Cement/Grout						
	Lir	71			ns, In	IC.			Surface Completion						

Projec	t	SAI	A				Logged By E. Gillara Boring No. SAIA-SB9
Projec	t Nu	mber _	0	71	63.0	064	Date Drilled
Locati	on _	Sta	m N	Na	ster	5	Total Depth Boring Location Sketch
Surfac	e Ele	evation	ı		ula		Boring Diameter 2"
	Г_Т	7					Drillers Orega Drilling
Feet)	nterv	ounts	pm) n/sample	Level	all uction	ogy / CS	Method <u>direct push</u>
Depth (Feet)	ample Interva	Blow Counts	PID (ppm) 8-zone/stem/sample	Water Leve	Well Construction	Lithology / USCS	DESCRIPTION
0.5	Š		<u> </u>				poorly graded sand: loose; dark gray; dry;
-2							poorly graded sand; loose; dark gray; dry; Mostly sand, fine; trace fires. No change
L							. 7
<u> </u>							No change
F							
<u> </u>							Poorly graded sand; loose; alive gray; dry;
	Н						80% five sand; 20% fives.
F							
- 25							Foorly graded sand; loose; olive gray & greenish gra
							damp; 70% fine sand; 30% fines.
- 							
-3S							Poorly graded sand; loose; olive gray; dry;
							75% fine sand; 25% fines.
_	H						
_	-						
_							
					(_	ameter Casing Length From To
						Scre	en Size Screen Length From To To To To
			innov	191	ivo		Sand Type From To Bentonite Type From To
	7	300000000000	Tech				Cement/Grout FromTo
					ns, In	C.	Surface Completion

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Projec	t	S	AIA				Logged By	E. Gillera	Boring No. SAJA - SB10
Project Number						064	_ Date Drilled	4/5/13	- Sheet(Of(
Location Seam Masters							Total Depth	35′	Boring Location Sketch
Surfac	e Ele	evation	·		u/9		Boring Diamete	r Z"	-
							Drillers	regg Drilling	-
-eet)	terva	nuts	pm) /sample	evel	II ction	/ SS	Method	irect push	-
Depth (Feet)	Sample Interva	Slow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS			
D O	San	ă	D-90	≯	Ö	.		DESCRIPTION	
-0.5							Poorly grad	ed sand; loose;	olive gray a light gray; dy; fines.
- 2	\vdash						No change		,·· <u>-</u> -
F				1					
5	H				:		No cliange.		
F									
<u> </u>							silty sand,	med. stiff; oli	re gray; damp;
<u> </u> -	H						mostly fin	es; some times	and; med. plasticity.
- -									
25							No change		
<u> </u>									
35	H						Poorly-sort	ed sand; loose	; grunish gray; domp
							,	, 90% fine can	d, 10 1. twos.
 -									
							1		
-									
E									
F									
	-				(Casing D	iameter		From To
						Scre	en Size		From To
	n a kasa		Inno	ua!	tive				From To From To
		200720000000000000000000000000000000000	Tech	ni	cal				FromTo
			Solu	tio	ns, In	IC.			

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Project	Logged By E. Gillera	Boring No. SAIA-SBI
Project Number 07163.0064	Date Drilled4/3/13	Sheet Of
Location Scam Masters	Total Depth35 '	Boring Location Sketch
Surface Elevation	Boring Diameter 2"	
	Drillers _ Grego Drilling	u II
orval (r) (r) (r) (r) (r)		
epth (Feel mple Internown Count low Count countstem/sam/sam/sam/sam/sam/sam/sam/sam/sam/sa	Method <u>direct push</u>	
Depth (Feet) Sample Interva Blow Counts PID (ppm) B-zone/stem/sample Water Level Well Construction Lithology / USCS	DESCRIPTION	J
-0.5	Poorly graded sand; loose; dry; as 1. med to fine sand;	trace fines.
-2	No change.	
	,	
	No changt.	
	/	
-/5 -	Poorly graded sand; loose	; alive groy adark brown;
	damp; 801. sand, fine; 20	7. fines.
	·	
-25-	Silty sand med stiff; olive mostly fines; some fines	gray & light gray; moist;
	mostly fines; some fines	cand; med plasticity.
35-	Poorly graded sand; loose; damp; 90% fine sand; 10	elive gray & light brown;
	damp; 90% fine sand; 10	7. fines.
		·
		1
	1	
<u> </u>		From To From To
Scr		From To
Innovative		From To
Technical Technical	Cement/Grout	From To
Solutions, Inc.	Surface Completion	

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Depth (Feet) Sample Interval Blow Counts PLO (ppm) P-zone/slem/sample Water Level Well Construction Lithology / USCS Lithology / USCS	Logged By	Sheet Of Boring Location Sketch
	nostly sand, fine, round mostly sand; med stiff; dan fines; some fine sand; Moderately gracked sand; le mostly sand, fine; 15; Well graded sand; loose; 90 % sand, med to fine	ok gray; damp; mostly med. plasticity pose; dark gray; moist; l. fines.
	Sand Type Bentonite Type Cement/Grout	FromTo FromTo FromTo FromTo FromTo

Project # 07163.0044	Logged By £.ailhua	Boring No. <u>ノルー SBマ</u>
Project Number <u>SAIA</u>	Date Drilled 4/9/13	Sheet/_ Of(
Location United Motor Co.	Total Depth	Boring Location Sketch
Surface Elevation	Boring Diameter 2 "	
	Drillers Gregg Drilling	u
mm) mmple weel)	Methoddired push	
Depth (Feet) sample Interval Blow Counts PID (ppm) B-zone/stem/sample Water Level Well Construction Lithology / USCS	Wiction	
Depth (Feet) Sample Interva Blow Counts PID (ppm) B-zone/stem/sample Water Level Well Construction Lithology / USCS	DESCRIPTION	N
	oderately graded sand; low gray; dry; mostly sand 20%, fives. Thy sand; med. stiff; edired five and five sand. Goderately graded sand; low mostly sand, five; 15%. Dell graded sand; loose; light 10%, five sand; rounded;	gray to dark gray; damp; d; 40% times; med. plastice pec; dark gray; damp; times. Alt brown of gray; dry; 10% fines.
	ter Casing Length	
41 Caman C		FromTo
Screen S	Sand Type	From To
Innovative	Rentonite Type	
		From To From To

Projec	nt	_S;A	IA	-			Logged By E. Cillera Boring No. UW-SE3	
Project Number								
Location Reliable Steel							pe1	╢
							Bulling Education Section	
Surfa	ce El	evation			nla		Boring Diameter 2"	
£	\al	S	<u> </u>	_	п		Drillers Quegg Dilling	
(Fee	Inter	Sount	ppm)	Leve	ell ructio	logy SCS	Method <u>direct push</u>	
Depth (Feet)	Sample Interva	Blow Counts	PID (ppm) B-zone/stem/sample	Water Level	Well Construction	Lithology / USCS	DESCRIPTION	
	Sa	ш —	<u>~</u>	-	U		DECOMM FIG.	╢
_	\vdash							
<u> </u>	H							
_		5				}	Poerly graded sand: 1005c: dark brown & dark gray;	
-							Poorly graded sand; loose; dark brown & dark gray; dry; 80% five sand; 20% pines	
L								
_							·	
_	Н	15					Silty sand; med. stiff; plive gray a dark gray; dam, mostly fines; some fine sand; med. plasticity	4
 	-						mostly fines; some fine sand; med. plasticity	
					·			
 -	<u> </u>							
		25	į		!	Ì	Poorly graded sand; loose; plive gray a light br	of or
							Poorly graded sand; loose; olive gray a light bre moist; 85% fine sand; 15% fines.	
F	-							
-	-						I I I I I I I I I I I I I I I I I I I	
	-	35					Poorly graded sand; loss; light gray to oline gray dry; 80% fine sond; 20% fines.	1
							dry; 80% five sond; W. puis.	
 -	<u> </u>		:		:			
-	\vdash	1						
		-	1					
E]				į		
 								
 		1						
					(Casing D	Diameter Casing Length From To	
						_	reen Size Screen Length From To	-
			I		. I		Sand Type From To	- 11
			inno Took				Bentonite Type From To	- 11
		2	Tech Solu	illi Tin	cai ns, Ir	ıe	Cement/Grout From To	-
			oull	LIU	iio, ii	IV.	Surface Completion	-

Project # 07163.004	Logged By E. Cillera	Boring No. JW-SB4
Project Number_ SAJA	Date Drilled 4/4/13	Sheet/_ Of/_
Location Reliable Steel	'	Boring Location Sketch
Surface Elevation ω/a	2"	Boning Location Sketch
Surface Lievation 40/4		
trval () () () () () () () () () () () () ()	Drillers Gugg Drilling	
Depth (Feet) ample Interva Blow Counts PID (ppm) -zone/stem/sample Water Level Well Construction Lithology / USCS	Method <u>direct</u> push	
Depth (Feet) Sample Interval Blow Counts PID (ppm) B-zone/stern/sample Water Level Well Construction Lithology / USCS	DESCRIPTION	
o a		
1 1		
	Moderately graded sand; loos dry; ts; time sonds; 25,	se; -tork brown a darkgrau
	dry; 75% fine sords; 25,	1. dices.
1 1 1		
- -		
	silty sord; med stiff; alive	gray; damp; mostly
	fines; some finde fines	nd; med. Plasticity.
	Poorly graded sand; loose; l	ight brown a light gray;
- -	damp; 80% fine sand; 20	of fines.
-35	Poorly graded sond; loose;, dry; 70%, fine sand; 30%.	light gray to clive gray;
	<i>/</i> , <i>,</i> , <i>,</i> , <i>,</i> , ,	,,,,,,
\vdash \vdash \mid \mid \mid \mid \mid		
- -		
_		From To
Screer	Size Screen Length	
Innovative		From To
Technical Technical		From To From To
Solutions, Inc.		11011110

Projec	t	<u> </u>	A.J.A				Log	gged By	Ē	.cil	tera		В	orin	g No). <u> </u>	w-s	SBE	5
				714	3.00	sel.		te Drilled _						s	heet _		_ Of _		
					Stee		_ Tot	tal Depth _		35/			E	Boring I	_ocatio	n Sket	ch		
Surfac	ce Ele	evation	l	h	15		Bor	ring Diamet	eter	z"			ļ						
	[_]		6				Dril	llers	zreg	19 D	rilling	<u> </u>							
(Feet)	Interv	ounts	ppm) m/sampl	Level	ell 'uctior	logy /	Me	ethod	time	ct pu	sh								
Depth (Feet)	ample Interva	Blow Counts	PID (ppm) B-zane/stem/sample	Water Level	Well Construction	Lithology / USCS					DESCF	RIPTION		1:					
							Silt Pac ma	devately sand	t; miesa vad nas	tol. st ands, lad s lad s atly so	hiff; and;	lark of the loose	great:	ay; a	damp f. egra fina	o, way a	light	ry H	row,
		<u> </u>			(Casing D	iameter .												
						Scr	een Size				een Lengt Sand Typ								
			Inno	va	tive						Sand Typ tonite Typ								
		जो	Tech	mi	cal						ment/Gro								
	sy 130		Solu	tio	ns, Ir	IC.			5	Surface (Completio	n							

Project	
Location Reliable Steel Total Depth 35' Surface Elevation Ma Boring Diameter 2" Drillers Oragg Drilling	4
Surface Elevation Boring Diameter 2"	APO
Drillers Origa Dvilling	
Drillers Origa Dvilling	
	İ
Method divect push	
Blow Counts Blow Counts Blow Counts Brone/stem/sample Water Level Well Construction USCS USCS USCS USCS	
PA	
Poorly gradedsand; loose; dark brown a dark of dry; mostly sand; trace fines. Silly sand; med. stiff; dark gray; damp; mostly sand, fine; 10% fines; med. plasticity Poorly gradedsand; loose; gray to dark gray; mostly sand, fine; 15% fines. Foorly graded sand; loose; light brown and gray; mostly sand, fine; trace fines.	· moist
Casing Diameter Casing Length FromTo_	
Screen Size Screen Length From To	
Sand Type From To Bentonite Type From To	
Technical Cement/Grout From To _ Solutions, Inc. Surface Completion	

CT	bane	
GI	Dalle	

Boring JW-5B/5407 No.

Date: _

JERNIS WEBB Project No.: 16300 7200 Page 1 of 2 Project: 3/2/15 US EPA Client: Start Date: Logged By: PJPHILLIPS

		<u>50</u> amp			TE	(Grain	Size	&	letio	on Date: 3/12/15 Reviewed By: Remarks	pol	W	'el
Depth		Blows /		- OVA	% fines	s	Distri (to nea % and m c	gra		max size	Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Co	
	J							-			6 5 500 × 200 101 / 7 500 212 0 101 (0.00)			ļ
3,5	X					H	-	-			6,5 DARKBROWN (7,54R 3/3) SILTY SAND	5M		+
			-			-	-	-			SANDY SILT, VERY FINE TO FINE		_	ļ
						-	-	-	-		GRAINED; MOIST; NO CEMENTATION;			+
											WELL TO MODERATELY WELL ROUNDED.			
											MIHORAGGY; CLATZ AMD MILKING UPTETE,			Ī
1											BIBTITE: PYRITE: ULTRAMATICS			Ī
-22						5.						2		Ī
20						8					**	40		
4.32											ZO LIGHT OLINE BROWN (2.5 / 5/3) FINE	SP		Ī
											TO MEDIUM GRAINED SAND, SLIGHTLY			I
											MOIST : WELL ROUNDED TO SUB-ALCULAR			I
											MINIETZALOGY: CLEAR, FROSTED, MILKY			
											AND SMOKEL QUARTZ: BIOTITE; PURITE;			
											CHERT: FELDSPAR			
50			<u> </u>					<u> </u>			5.0 DATEK BEOWN (104R 3/3) SILTY, WERZY	SM		
			\downarrow			\perp					FINE GIZANED SAND, FROUND ITO			
						L					TO SUB-ANGULARZ; MOIST, WELLSORTED			
			_		_	_	Ц.	<u> </u>			MINERALDGY! CLEAR AND MILKY QUARTZ;			1
	_		-			-		-	-		BIOTHE! PYIZITE			1
					-	-	-	-			15.0 DATOLGIZATISH BROWN (2.5 4 4/2) LIETZY	SP		ł
5.0											FINE GRAINED SAMO, ROUND; MOIST.			t
										Particle .	WELL SORTED			t
					-						MINEIZALOGY: CLEAR AND MILKY QUARTZ;			t
											BIOTITE; PYRITE			İ
			-			-	-	\vdash			76 DATE GRANCH FROM WY (1918 147)	SM		
15.0	P		-								ZS'D DATZKGRATISH EROWN (IONE 4/Z) SILTY VERZY FINEGIZATNED SAND. ROWN			ł
annum monane di Annahada			-		-	\vdash	-	+						ł
			+		-	-		 	+		TO SUB ROYALS, MOIST, YERY WELL			ł
			+			-	-	 	 		SORTED / POORLY GIZADED: WIETAKLY			ł
	_		+		-	\vdash		\vdash	+		CENTED			ł
	_	\vdash	-			-		+	-		MINERALOGY' CLEAR, MILKY AND		-	ł
	-		-			-	+	+	+		FROSTED QUARTZ; BIOTITE, PIRTE;			+
		\vdash	+			\vdash	H	+	-		UCTIZA MAFICS			+
3 <u>50</u>	.—		-			+	-	+	-		35.0 GIEANISH BECWA (2.57 5/2) TO ,	57		1
		+	+			-	-				444 OLIVE BROWN (2.54 5/3)	75		+
	_		+			+-					TENT CINETO MATOLINA COMILES LIAN			+
		Ш		ıg geo	1	_	Щ	1	7		Date: 3/12			1

jett e:\qa_qc\Draft Final Soil ID and Desrip SOP Prompts

G	ban	e

Boring No. JW-513/5407

Project:		J	E10	115 (NE	K	5			Proj	ect No.:	11630	0120	70	-		Page Z			
Client:				EDA						Sta	rt Date:	3/12	115	·····	Logged By:	PJA	41417	×		
Locatio	n:	5	OUT	7+ G	ATO						on Date:	3/17	2115		Reviewed By:					,
ţ		amp nter	led	OVA		I	rain Distri	buti	on			Viewal/Mo-	unat dagamie	Remai		!!@DD =005\		Group Symbol	ī	ell nst.
Depth	Ь—			0	l _s	_	to near %	_	%) %	9	Descri	Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the								
	iver	Blows /	Recovery	BID	fines	sa	und		avel	x size			ion. Inclu	de also: Sam	nple IDs; Start/St			dno	Annu	Casing
	ā	B	Rec	_PID _FID	%	f	m c	f	С	шах			Wate	r levels, Oth	ner comments.			Ğ		
											ROL	OT AIM	503	ANGL	JLAR; 51	144727				
											MO	IST: M	ODET	ATELY	SORTE	۵.				
											MI	NETZALD	ay!	CLEAR	FROSTI	EN ARIN	MILKY			
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Boring No.	JW-513/5408

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3500																				
שנכס											35	D LIGHT	OUVEBRO	M/M (2.	54	3/4)	SP		
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L							П					POTASSI	UM FELD	SPAR		PYR	TE!			
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Date: 3/12/15 Signature (logging geologist): Signature (reviewer): Date: _



Location: South Gate, Ca.

Soils Log Form

No.	Boring No.	JW-SB/SG OG
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Date: ____

Project:	Jervis Webb	Project No.: <u>J163007200</u>	Page _/_ of)
Client:	U.S. EPA	Start Date: 3/19/15	Logged By: P. J. Phillips

Completion Date: 3/19/15 Reviewed By:

Depth	Ir	nter		OVA]	Distri	Size d bution test 5 %	ı	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	ymbol	W Co:	ns
De		Blows/	Recovery	PID FID	% fines	s	% and m c	% grav	ize	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Annulus	
	Х						_			0.5 DATEK BROWN (104R 3/3) YETCH FINE TO	SW		l
0,5										MEDIUM GRAINED SAND. WELL FOUNDED	SW		t
										TOSUB-ANGULAR; MOIST; MODERATELY			t
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										QUARTE; BIOTITE; PIRITE; ULTRA			
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20										FINE TO MEDIUM GRAINED SAND.	-		t
D.No. Bearing										IN ELL ROUNDED TO SUB-ANGULAR.			T
-										VETZY SLIGHTLY MOIST, MOLDERATELY			I
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5.0									-	5.0 VERY DARK GRAYGH BROWN (2,54	SM	56	
2.0										312) SUGHTLY CLAYET; SILTY VERY			
										312) SUGHTLY CLAYET, SILTY YERY FINEGIZAINED SAND, IRUND TO			
										SUB-ANGULATZ, MOIST			
										MINETE ALOGY CLETTE, MILKY, FITOSTE	D		-
										AND SMOKE) QUARTZ; BIOTITE, PIRITE; CHETZT; ULTTER MATICS			
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and the second										MOIST; MODERATELY-WELL SORTED			
						Ц				MINETRALOGY: MILKY, CLEAR AND			-
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Boring No. JW-SB/SG \ \circ\

Location: South Gate, Ca. Completion Date: 3/11/15 Reviewed By:

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	Sa	mpl	ed	√							Remarks		
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	ű	s/	ery	0	cs		%	%	,	ini I		S	Annulus
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no complete to													
				MINERALOGY: CLEAR ANDMILKY QUARTZ									
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	\vdash						<u> </u>		+		WELL CONTENTS GUITTE MOIST		
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	Н					1			-	_	MODERATELY SORTED		
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	\vdash										AND SMOKE QUARTE: BIOTITE,		-
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Boring No. JW-SB/SG) \

Locatio	ocation: South Gate, (ie, Ca.	Completion Date: 3/9/15 Reviewed By:										
		amp	led						lize & oution		Remarks	bol	W	/el
epth	· -			OVA	L.,		DiSti (to ne:				Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	E E	Co	
Ď	Driven	Blows /	Recovery	PID FID	% fines	s	% and m c	_	% gravel f c	max size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Annulus	
	Х							-		-	0.5 DARK YELLOWISH BROWN (104R 3/4)	SP		-
25			-					+	+		FINE TO MEDIUM GRAINED SAND.	7		t
								\dagger			WELL- ROUNDED TO SUB ROUND;		1	t
								T			MOIST; MODERATELY SORTED		7	t
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											JUTEA MAFICS			1
Z.0								-			ZIO SAME AS ABOVE			-
5.0											5.0 YERY DARK GRAY BH BROWN GOYR	512		
											3/2) MEDIUM GRAHNED SAND,			
											WELL ROUNDED TO SUB-ANGULAR;			
			_								MOIST; HERY WIELL SORTED.			1
								_			MINIERALOGY: CLEAR, MILKY, SMOIZEY			1
-											QUARTZ; BIOTITE; PYRITE; CHERT;			1
	-		-					-		-	ULITZA WAFICS			+
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											SILTY VERY FINE TO MEDIUM GIZAINED			
								_		ļ	SAND, WELL ROUNDED; MOIST,	,		1
										ļ	POORLISORTED.			1
								ļ			MINERALOGY: CLEAR AND MILKY QUARTZ;			
	_					_		-			BIOTITE, PYRITE			1
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											SUGHTH CLAYEY VERY FINE TO			T
											MEDIUM GRAINED SAND, WELL TO			T
											SUB-ROUND; VERY MOIST,			
											MINERALOSY: CIEME SMOKEY AND MILKY			Ī
											QUARTE, RIOTITE. PYRITE, CHERT:			Ī
											QUARTE, BIOTITE, PYRITE; CHERT; ULTIZA MAFICS			I
5,0								-			35.0 LIGHTYELLOWISH BROWN (2.54 6/4)	3P		+
		П						+			FINE TO MEDIUM GIZAINED SAND,			+
								I			MODERATELINWELL ROUNDED: SUGATIN			
								I			MOIST; WELL SORTED.			
											MUST; WELL SORTED. MILLERALOGY: CHEAR MILLY AND SMOKEY			
											QUARTZ; BIOTITE: PYRITE, ULFRA			
			:						. : :	.)	MAFICS WITH ITEM STAINING			

Signature (logging geologist):

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Boring No. JW-SB/SG \ Z

Project: Jervis Webb Project No.: J163007200 Page / of /

Client: U.S. EPA Start Date: 3/6/15 Logged By: P. J. Phillips

Location: South Gate, Ca. Completion Date: 3/16/15 Reviewed By:

Depth	ı	amp nter		OVA]	Distri	Size & bution rest 5 %)	_	Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	Symbol	Well Cons
l ă	Driven	Blows/	Recovery	PID FID	% fines	s	% and m c	% gravel	max size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group S	Annulus
	х									3 INCH THICK CONCRETE FLOOR		
0 <u>.5</u>										FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST;	SM	
-										MODERATEUI - WELL SOIRTED MINETRALOGY: CLEAR AND MILKI QUARTZ BIOTITE; PURITE; ULTRA MAFILG; CHEPT		
70											6M	
5.0										S.O VERT DATAL BROWN (IONR Z/Z) SILTY VERN FINE TO MEDIUMGRANED SAND. ROUND TO SUB-ANGULATE; MUST; VETZY WELL SORTED. MINERALOGY: CLEME, FROSEDAND MILLY QUARTE; BIOTITE; PYIZITE; ULTRA	SM	
156										15.0 DATEK GIZATISH BROWN (10YR 4/Z) SILTY VERN FINE GRANED SAND, WELL ROUNDED TO ROUND; MOIST TO VERY	SM	
										MINETEALOGY: CLEME, MILLEY AND TROSTED QUARTE: BIOTITE: PYTEITE; CHETZT; POTASSIUM FELDSPAR		
Z 58	>									400 SAME AS ABOUT WITH COLOR GRADATION TO DARK GRAY (Z.54411) MOIST)	
35.0)									35.0 CITALISH ISTOWN (Z.5Y 5/Z) FINE TO MEDIUM GIZANED SAND, ROUGHD TO SUB-ANGULAR; VETZY SUGHTO! MOIST, MONSETCATED WELL SORTED.	SW	
Signa		. (1			1					MINETRALOGY: CLEME, FITOSTED AND MILKI QUARTE: BIOTITE; PYIZITE TRED AND GREEN CHEIZT, ULTIZA TRAFICS Date: 3/1		

Signature (reviewer):

Date:



Boring No.

JW-SB/SG 13

 Project:
 Jervis Webb
 Project No.:
 J163007200
 Page / of /

 Client:
 U.S. EPA
 Start Date:
 3/12/15
 Logged By: P. J. Phillips

Location: South Gate, Ca. Completion Date: 3 [12]/5 Reviewed By:

Locatio	n:	Sout	ı Gate	e, Ca.				_	Com	oleti	on Date: 3/12/15 Reviewed By:		
Sampled Interval		led				Grain Size & Distribution				Remarks	bol	Well	
pth	Iı	nter	al	OVA			Distr (to nea				Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	Group Symbol	Const
De	ű	ΞŢ	ery	0	S		%	Π	%	ze	Description shall provide enough information so that a reviewer can understand the	S	Annulus
	rive	O.W.	SAM Gravel FID S Sand Gravel F m c f c F m c f c	ıx si	basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data,	lno	Ann						
	Ω	basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.		් ප්									
	X												
0.5											0,5 DARK GRATISH BROWN (Z.5Y 4/Z)	5M	
											SILTY SAND / SANDY SILT, VETZY FINE		
											WELL SOIRTED		
											MINERALOCH! QUARTE AND BIOTITE		
—													
Zio		2.0 11645 OLIVE BROWN (2.575/4) VESTA FINE		SW									
_						GRAHED SAND, WELL ROUNDED.							
							SORTED.						
										-			
								-	+		AND SMOVEY DIMERTZ. BIOTITE.		
						-		+			PYRITE POTASSIUM EELNSDAR.		
							-	+-	+				
								+-			0-11-17 11/1-103		
5.0			S. OVERN DATA			S. OVERY DATEKBROWN (10 YR Z/Z) SILTY, VETZY	SM						
					FINE TO MEDIUM GRAHAD SAND. ROUND	>M							
							TO SUB-ANGULAR; MOIST; MODETZATELY						
						-		+			WELL SOITED.		
					-			+			MINERALOGY: QUARTZ; BIOTITE; PYRITE		
						-		+-	-		VITTEA MAFICS		
						-		+			ODITCH PORT ICS		
150					-		-	+-	-		I ONALL GRAVICH PROVING (15 VITUIT) CUTU	SM	
15.0					-	-	-	+	-		IS ODARIK GRAYISH BROWN (16 YIZ 41Z) SILTY SAND ISANDY SILT, VERY FINED GRAINED,	28-8	
	-				-		-	-		-			
	\vdash	\vdash	-		-						WELL ROUNDED, VETEN MOIST TO WET,		
						-	-	-	-		VERN WELL SORTED		
						-		-		-	MINETALOGY QUARTZ; BIOTITE; DYRITE,		
			-				-	+	+		ULTRA MATICS		
Z510	_							-		-	7- 0 (PANCE PRIMAL) (INT 5/2) CIT 5:1201	ML	
					-			+			Z5,0 GRAHISH BROWN (10/12 5/2) SILT, FIRM:	JATILLA.	
	_	\vdash			-	-	-	-		-	WEAKLY CEMENTED; SLOWI DILATANICY		
	_						\vdash	-			TO OUGHT WELL MADEL BROWN IN TO CHILL THE	0.1	
35.0	_				-		-	+	-		35, OUGHT VELLOWISH BROWN (2.54 613) VERY	5W	
					-		-	+		-	FINE TO MEDIUM GIZAINED SAND,		
		\square			_		-	+-		-	WELL ROUMDED TO SUB-ANGULAR SULAHIL	7	
					_	_	-	+		-	MOIST; MODERATELY SORTED		
	_					_		-			MINERALOGY! CLEAR, MILLLY, FROSTED		
						-		-			AND SMOKEN QUARTZ; PYRITE; BIOTITE;		
			-			-		1		-	OLTRA MAFICS, POTASSIUM FEWSPAR.		
									7 :	1.\	MARGEN AND RED CHERT		

Signature (logging geologist):	110	Date: 3112115
Signature (reviewer):	V	Date:

G	bane	
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Boring No.

JW-SB/SG 14

Date:

Project No.: <u>J163007200</u> Jervis Webb Project: Client: U.S. EPA Start Date: Logged By: P. J. Phillips

	S	amp	led	e, Ca. ✓			irain Distri	Size	&	tion Date: 31/3/15 Reviewed By: Remarks	loqu	W	
Depth		nter / swolg		AVO HED	% fines	Sa	% and	est 5 % % grav	,	Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Co	
	х									4 INICH THICK CONCRETE FLOOR			
0,5													
12										0.5 BROWN (7.54R4/Z) VERY COARSE GRAINED	SW		
										SAND. ANGULAR, MOIST, POORLY			1
										SORTED			1
			-							MINERALOGY: QUARTE; POTASSIUM		ļ	1
			-				-			FELDSPAR; BIOTITE; PYRME			+
0.0		H	+							Z.O DARK GRAYISH BROWN (2.544/Z) VERN FINE	2 W		-
			-		-					TO MEDIUM GRAINED SAND, ROUNDTO	D X1		t
	-												ł
							+			SUB-ANGULAR; SLIGHTLY MOIST; MODERATED SORTED		-	+
			-			H	-			HINEIZALOGY: CLEAR, MILKY, FROSTED			1
			+			-	+					-	-
							+	-		QUARTZ; BIOTITE; EVEITE; CHERT		-	and the same
.0			1							5,0 VERZY DAIZKGRZAYISH BROWN (104R 3/2) SILTT	SM		-
	-									VEIZY FINEGIZAINED, SAND, ROUND TO	21-1		
										SUB-ROUND; MOIST, MODERATELY-WELL			-
										SOIRTED			1
										MINETEALOGY; CLETAIZ, MILICY, SMOKE			1
										QUARTZ; BIOTITE; PYRITE; ULTRAMATIC			1
50													-
,,,,											SM		
	L									WERY FINE GRAINED, ROUND TO SUB-			
							_			ROUND, MOIST			
3.0	L								_				1
										ZS.O SAME AS ABOVE WITH INCIZEASE IN			1
					_					VERY FINE GRAINED SAND, VERY MOIST			-
									_	TOWET		_	
5.0	_												
	_									35.0 GRAYISH BROWN (2.54 5/2) TO LIGHT	5W		
	_									OLIVE BROWN (2154 5/3) FINE TO			-
							_			MEDIUM GIZAINED SAND. ROUND TO		_	1
							_			SUB-ANGULAR, MOIST, MODERATEH-		L.	1
4		\square								WELLGORTED			1
		\square				Ц	_			MINERALOGY! CLEAR, MILKY, FROSTED.			1
										POTASSIUM FELDSPAR! RED AND			1
	_					\square							1
						\vdash				GZEEN CHERT			-
	_	-	1				-		-				+
			-:	**			\vee			Date: 3/13			1

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Boring No.	лw-sb/sg (5	

Date: ___

Page | of | Project: Jervis Webb Project No.: J163007200 3/13/15 U.S. EPA Logged By: P. J. Phillips Client: Start Date: Location: South Gate, Ca. 3/13/15 Completion Date: Reviewed By: Grain Size & Well Symbol Sampled Remarks OVA Distribution Depth Const. Interval Visual/Manual description of soil (ASTM D 2488 / USBR 5005) (to nearest 5 %) Description shall provide enough information so that a reviewer can understand the Driven Blows/ Group ! sand gravel basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, PID % Water levels, Other comments. f m c f 4 INCH THICK CONCRETE FLOOR 0,5 0,5 DAIZK GRAYISH BROWN (10YR 4/Z) FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; MOIST TO VERY MOIST; MODERATEN SORTED MINERALOGY, CLEAR AND MILK , QUARTE BIOTITE; PYRITE; CHERT; ULTEH MAFILS Z.D SAME AS ABOVE WITH INCIZERSEIN FINE 7.0 TO VERY FINEGRAINED SAND AND 5.0 VERY DATUS GIZAYISH BROWN LIOYR 3/2/5W 5,0 SILTY VEIZY FIME TO MEDIUM GRAINED SAND, ROUND TO SUB- ROUND; MOIST MINERALOGY: QUARTZ: BIOTITE, PIRITE: ULTRA MAFICS 15,0 DATHE GRAY (Z.5Y 4/1) SIETY SAND/SAND/SIETSM 15.0 VERY FINE GRAINED, MOIST TO VERY MOIST MINETRALOGY: CLEKE AND MILKI QUARTE BIOTITE; PYRITE; MAFICS Z5.0 SAME AS ABOVE WITH INCREASE IN VERY FINE TO FINE GRAINED SAND. ROUND; MOIST TO VERI MOIST; MODERATELY-WELL SOIZTED 35,0 GIZAYISH BROWN / Z. 54 5/2) FINE TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAIZ; MOIST; MODER ATELY -WELL SORTED MINERALOGY: CLEAR, MILKY, FIZOSTED. SMOKEY QUARTZ: BIOTITE: PYRITE: POTASSIUM FELD SPAR 3/13/15 Signature (logging geologist): Date:

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Boring No.	JW-SB/SG	16	

Project:	٤	Jervis Webb U.S. EPA						Project No.: <u>J163007200</u> Page						
Client:		U.S.	EPA							Sta	art Date: 3/10/13 Logged By: P. J. Phillips			
Locatio	n: S	outh (Gate, Ca.						Comp		on Date: 3/10/15 Reviewed By:			
		mple	3	T				Size	&		Remarks	loc	W	ell
Depth		terval						bution Sest 5 '			Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	Symbol	Cor	
Q	en	/S/		fines	3	%			%	size	Description shall provide enough information so that a reviewer can understand the	p S	Annulus	Casing
	Driven	Blows /	PII FII	' I		sar			vel	max s	basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group	Ϋ́	ర
H	-	~ ~	_ FIL	, °	`	fm	1 C	f	С	=	Water revers, Other confinence.	5		_
-	Х				+	+	-		0,5 DARK BROWN (104R 3/3) FINETOMESIUM		2011			
0.5				+	+	-	-				GRANED SAND. WELL ROUNDED, SLATT	SW		
				_	+	+-	-				MOIST; MODERATED - WELL SORTED,			
H				+-	+		-				MINERALOGY' CLEPR, SMOKEY, MILKY			
				+	+	+	-				QUARTZ, CHERT WITH 170N STAINING			
l					+	+			-		BIOTITE; PYRTE			
				-	+	-	-			-	Diottic, That			
710					+	+	\dagger	-			2.0 SAME AS ABOVE			
					1		+				E. C. J. J. J. J. J. J. J. J. J. J. J. J. J.			
5,0				\top							5.0 SAME AS ABOVE			
15.0											15.0 BROWN (10/R 4/3) MEDIUM GRAINED	SW		
											SAND. WELL ROUNDED TO SUB-ANGULAR;			
											MOIST, MODERATELY SORTED.			
											MINERALOGY: CLEPE, SMOKEY, MILKY			
											QUARTZ', BIOTITE; PYRITE; POTASSIUN	1		
											FELDSPAR CHERT WITH I RONSTAINING	0		
Z510											Z5.0 DARK GRAHISH BROWN (Z.54 4/2) SILTY	SP		
					1						SAND I SAMDY SILT, VERY FINEGRAINED;			
											WELL ROUNDED; VERY MOIST. VERY			
						_	1				WELL SORTED,			
						-					MINERALOGY: QUANZTZ; POTASSIUM			
				\perp	\perp	-	-				FELDSPAR; BIOTITE; CHERT; PIRITE			
35,0				-	4	-								
					+	+	-				35,0 GRATISH BROWN (2,3 5/2) VERTFINE TO	SW		
-	\square			_	-	-	-				MEDIUM GIZAINED, WELL KOUNDED TO			
				-	-	+	+				35.0 GRATISH BROWN (2.55/2) VERTFINE TO MEDIUM GRAHED. WELL ROUNDED TO SUB-ANGULAR; MOIST TO VERTWOIST. MINERALOGY: CLEAR. FROSTED, MILLE	h		
H	\vdash			-	+	+	-				MINEGAGGT, CIERC, NOS'ED, MIGG	/		
	\vdash			+	+	+	-				SMOKEL QUARTZ; BIOTITE; PYRITE; POTASSIUM FELD SPAR; GREEN AND			
H	\dashv			+	+	-	-				RED CHERT			
	$\vdash \vdash$			+	+	+	-	-	-		KED CHEMI			
H	\vdash			+	+	+	-							
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Siona	hire	Close	ging ge	olo	oie	t)·			1		Date: 3/10	115		T
T.				OIO	212	9.	R 3	/		/			_	
Signa	ture	(rev	iewer):								Date:			



Boring No.	JW-SB/SG 17	

Project	:	Jei	vis V	Vebb					1	Proj	ect No.: J163007200	Page_	_ of	<u>z</u>	
Client:		U.	<u>S. EF</u>	PA						Sta	t Date: 3/10/15	Logged By: P. J. Phillips			
Locatio	n:	Sou	ath Gate, Ca. Completion Date: 31/01/5 Reviewed By:					Reviewed By:			•				
	s	amı	oled					Size	&		Remark		pol	W	ell
Depth	I	nter	val	0VA	L			butions 5 '			Visual/Manual description of soil (A		Symbol	Co	nst.
Ã	e E	/S/	very		fines		6 d		6	size	Description shall provide enough information		S di	snInu	Casing
	Ę	Blows/	Recovery	- PID FID	% fii		nd n c	gra	vel c	max	basis of the classification. Include also: Samp Water levels, Other		Group	¥_	Ö
	x		P4	_110	_	1 1	1 6	1	٠	-			0		
	^						+				0.5 DARK BROWN (10 VR	3/3) VET VEINE TO	1.1		-
015							+				MEDIUM GRAINED S		SW		-
							+				TO ROUND; MOIST; A				
	_					H	-				SORTED.				
	Т						1				MINERALOGY: CLEAR	AND MILKY DUARD.			
							+				BIOTITE; PYRITE; CHE	ERT INTRA MARIAS			
20	-						1				, , , , ,	, 0 , , , , , , , ,			
20											ZIO SAME AS ABOVE! VE	TEX SUGATES MOIST.			
											WELL SORTED				
5,0											5.0 VETZY DATZK GRAYISH E	BROYN (IDAR 3/Z)	SW		
											YERY ANE TO MEDIUM				
											WELL ROUNDED TOS	SUB-ANGULAZ, MOIST,			
											MODERATELY SOIZT				
The second second											MINIETRALOGY : CLEIN	R'AND MILKY QUAD.	2,		ļ
							-				BIOTITE, PIRITE,				
vanament - p			ļ				_				FELDS PAR; CHETET	•			
-			-				-				5 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(= = -17)	20.1		
150	_						+			april 1	15.0LIGHTOLIVE BROWN		SW		
				-			-	-			VETEN FINE TO MEDIU				-
							-				WELL ROUNDED TO				
7		_					+				MODEIZATELY SOZTED.				-
	H		-				+					RAMBMIUM QUARTZ,			
			-				+				CHOSEN MATO KED CHE	ERT; BIOTITE; PHRITE			-
Z50							+				Z5. OVERY DARK GRAYISH B	Pare 10 (25 V 2/2) (FRZ)	1 1		
							+				FINE TO MEDIUMGRA	10411 (21) 4312) (1017)	SW		
	H						+				ANGUAR TO ROUND	MOIST: MADERATEIN			
							+				SORTES	, Mose-ALL			
	r										MINERALOGY: CLEAR	FROSTED, MILKY			
						\Box	\top				QUARTZ; BIOTITE;				
ļ ——	Г						+				MAFICS	, 00//			
بي مساروسيا															
35.0											35,0 DARK OUNE GRAN (543/2) SILTY SMAD	SM		
	Г						1				SANDY SILT, LIERY				
											SLOW DILATATA	, , , , , , , , , , , , , , , , , , , ,			
45:0	L														
,5,0	L										45.0 DATEX GIZATISH BIZOUN	N (10YR 4/2) SITY	SM		
	L							<u></u>			VERY FINE GRAINE	D SAND, FROUDID TO			
								1			WELL ROUND; YE	RY MOIST,	, .		
Signa	tur	e (1	oggir	ng geo	logi	st):		1	1-		- / July	Date: 3/10	2/15		
Siona	tur	e (r	eviev	ver).								Date:		_	

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Boring No. JW-SB/SG 17

Page Z of Z Jervis Webb Project No.: J163007200 Project: U.S. EPA Start Date: Logged By: P. J. Phillips Client: 3/10/15 Location: South Gate, Ca. Completion Date: Reviewed By: Grain Size & Well Group Symbol Sampled Remarks Distribution Const. Interval 70 Visual/Manual description of soil (ASTM D 2488 / USBR 5005) (to nearest 5 %) Description shall provide enough information so that a reviewer can understand the gravel sand basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments. f m c f VERY WELL SURTED 60.0 60.0 SAME AS ABOVE WITH IN CREASE IN SILT AND PRESENCE OF CLAT; VERY MOIST TO WET; SLOW DILATANCY Date: 3/10/15 Signature (logging geologist): Signature (reviewer): Date:



Boring No.

JW-SB/SG | 🖇

 Project:
 Jervis Webb
 Project No.:
 J163007200
 Page / of Z

 Client:
 U.S. EPA
 Start Date:
 3/11/15
 Logged By: P. J. Phillips

Location: South Gate, Ca. Completion Date: 3/11/15 Reviewed By:

ocation:	•							_			netic	Date: 3/11/15 Reviewed By:		_	
셤		amp	- 1	K					ize utio			Remarks	loqu		Vel
Depth		nter		OVA	fines		%		st 5 %	Ó	size	Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Description shall provide enough information so that a reviewer can understand the	Group Symbol	Canluna	
	Driv	Blows/	Recovery	PID FID	% fir	-	and m	_	grav	vel	max	basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Grou	Αn	
	x														I
15												O.SDARK BROWN (7.5 YR3/Z) YETCH FINETO	SP		1
												MEDIUM GIZAINED SAND, MODERATEDI.			1
								_				WELL ROUNDED TO SUB-ANGUAR;		_	1
								1				SUGHTLY MOIST, MODERATED SORTED.		_	1
												VETCH MIHOR AMOUNTS OF VETCH COATISE		_	1
												GRAINEDSHAND TO GRANUE GRAVELSIZED			_
						ļ						ROCK FRAGMENTS.			_
												MINERALOGY! CLEAR AND MILKY QUARTE;			_
												BIOTHE, PYRITE			1
															1
0							Ш					Z.O OLNE BROWN (Z.5Y 4/3) FINE TO MEDIUM	5W)		1
												GRAINED SAND, WELL ROUNDED TO			1
												SUB-ANGULAR; MUDERATELI SURTED			
						L						MINERALOGI! CLEAR, MILKY, FROSTED			
												AND SMOKE GUARTZ, BIOTITE, PHOTE			
						L						POTASSIUM FELDSPAR; GIZEEN MAIN	1		
	_,-							4				RED CHERT, ULTRA WAFICS			-
5,0								1				50 YERY DARK BROWN (104R Z/Z) SILTY	SP	-	+
210												VETZY FINE TO MEDIUM GRAINED SAND,			1
							\Box	1				ROUND TO SUB-ANGULAZ: MODERATEDI-			1
—-								T				WELL SORTED.			1
							П					MINIETZAZOGY: CLEAR, SMOKEY AND MILKY			
				-				1				QUARTZ: PIZITE: BIOTITE; CHERT			
						T	H					() () () () () () () () ()			1
150						T						15.0 DARK YELLOWISH BROWN (104R 3/4) TO	SM		1
						T	П					DARK BROWN (104R 313) SILTY SAND/			1
							П					SANDY SILT. YERY FINE GIZAINED; WELL			
							П					RONDED; WELL SORTED.			
												MINERALOGY QUARTZ BIOTITE; PYINTE			
7 E E															
<u> 25,0</u>												25.0 DARK GRANIGH BROWN (2.57 4/2) SILTY	SM		
												SANID/SANIDYSILT			
							\sqcup	4				MINERALOGY, QUARTE; BIOTME, PYRITE		_	-
510							\vdash	-				35,0 GRAVISH BROWN (ZISY 5/Z) FAIR TO			-
								+				MEDIUM GRAINED SAND, WELL RUMBED			+
							\forall	+				TO SUB-MIGHED STAD, WELL HOLDER			+
							H	+				MODERATELY-NEW SORTED.			+
		-				+	\forall	1		_	1	MINERMOUN'S CLEAR, MILIY, FROSTE	Б		+

Signature (logging geologist):

Date: 3/11/15

Date: Date:



Boring No. JW-SB/SG \S

Project:	:	Jer	VIS \	Webb]	Proj	ect No.: <u>J163007200</u> Page Z	of	2	
Client:				•		Sta	art Date:			_				
Locatio	South Gate, Ca.				C	omp	letic	nrt Date: 3/11/15 Logged By: P. J. Phillips on Date: 3/11/15 Reviewed By:			_			
Depth	Sampled		Distri	butio	n		Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	loqui		/ell				
De	Driven	П	Recovery	PID FID	% fines	sa	% ind	grav	vel	max size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Annulus	
	x		N.	FID	0	f	m c	f	с	E	PYRITE, DOTASSIUM FELDSPAR, TRON STANED GREEN AND RED CHERT	Ğ		
H	_				-	H	-		- 1		PYTZITE, POTASSIUM FELDSPAR			-
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Signa					logi	st):			- 3	11	Date: 3/11/			
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Boring No.	JW-SB/SG 19

Date: __

Project:	Jervis Webb	Project No.:	J163007200		Page of
Client:	U.S. EPA	Start Date:	3/9/15	Logged By:	P. J. Phillips
Location:	South Gate, Ca.	Completion Date:	3/9/15	Reviewed By:	

		_		e, Ca.	r	Grain	_		netic	on Date: 3/9/15 Reviewed By:		T 33	-
ų.	1	amp		⋖			ributi			Remarks	કૃ	W	
Depth		nter		OVA			arest 5			Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	🖺	Cc	
Д	riven	Blows /	Recovery	PID	fines	% sand		% avel	x size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data,	Group Symbol	Annulus	
		圖	<u>&</u>	FID	%	f m	c f	С	ma	Water levels, Other comments.	5		Ţ
	X												
0,5	L		_							0.5 DARK GRAVISH BROWN (104R 4/2) SILTY	SM		
			ļ							SAND. FINE TO MEDIUM GRAMED; SUB-			_
										ANGULAR TO ROUND, MOIST, MODERATERY			
										WELL SOIZTED			
										MNETZALOGY; MILKY MYD CLEAR QUATETZ;			
										BIOTITE, PYRTE; CHERT, ULTRA			
			_							MAFICS			
 フ.ව	-		-							Z.O SAME AS ABOVE WITH IROM STAINING			_
_,0	_												_
			-				+	18		OF CHERT			
510			-				+			5.0 BROWN (10 YR 5/3) SUGHTLY SILTY	SP		-
										SAND. FINE TO MEDIUM GRAINED;			-
								T		SLIGHTU MOIST, VERY WELL SORTED.			_
arak dijihinka ya										MINERALOGY: CLEAR, MILKY AND SMCKEY			
								T		QUARTZ, BISTITE, PYRITE, IRON			-
			<u> </u>							STAINED TED AND GIZEEN CHERT;			,
		\Box								ULTIZA MAFICS			-
150			†					1		The state of the s			-
1710										15.0 VERY DARZEGRAYISH BROWN (ZISY 3/Z)	54	51	_
							T			CLAYET, SILTY VERY FINE TO MEDIUM			
_							T			GRAINED SAND, WELL TO SUB-ROYAD,			-
										VERY MOIST; MODERATED SORTED,			-
_										MINERALOGY: CLEAR AND MILLY QUARTE,			-
G WINNE										MAFICS, BIOTITE: PYRITE			
										1			
50	_						-	-		25.0 SAME AS ABOVE WITH SLIGHT INCREASE			_
							-		1.50	IN FINE TO MEDIUM GIZANED SAMD			_
500		H						1					_
		\vdash	-							35,0 LIGHT YELLOWISH BROWN (2.54 613)			_
	-	\vdash						+		FINE TO MEDIUM GRAINED SAND,			_
		\vdash	1					+		WIELL ROUNDED TO SUB-AWGULAR.			_
	_	\vdash	-				+-	+-		SUGHTLY MOIST, MODERATELY SORTED MINERALOGY; CLEAR, MILKY MIND			_
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Boring No.	JW-SB/SG ZO
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Project	:	Jer	vis V	Vebb							ext No.: J163007200 Page	_ of	1	
Client: U.S. EPA						Start Date: 318/15 Logged By: P. J. Phillips								
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De	Driven	Blows /	Recovery	O PID FID	% fines	sa	nd n c	gra	% avel	max size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Annulus	Casing
	х										41ACH THICK CONCRETE FLOOR			
015	_						-	-						-
	-						+	-			0.5 DATEK BROWN (10 YIZ 3/3) SILTY VERY FINE	SW		
		\vdash				+	+-				TO MEDIUM GRAINED SAND, ROUND TO			+
	-		-			9 (+	-			MODERATELY SORTED.			+
	-						+				MINETALOGY: CLEAR AND MILKY GUAPTE;			
											POTASSIUM FEUSPAR; BIOTITE! DIRITE			\vdash
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Z.O											Z.O GRAVISH BROWN (10 YR 5/Z) MEDIUM	5W		
											GRANED SMAD. SUB-ROUND TO			
			1					1			ANGULAZ; VERY MOIST; VEZY WELL			
							-	-	_		SORTED			
-	_		-				-	-	-		MINERALOGY: CLEMZ, MILKY, FROSTED			-
	-		-			-	-	-	-		QUARTZ', POTASSIUM FELDSAR, RED			-
			-				+				AND GREEN CHERT, BIOTHE, PIRKE			-
5.0							_				50 SAME AS ABOVE			
15,8											15.0 VERY DAVOC GRAVISH BROWN (2.54 3/2)	SL		
12/2											SITY CLAY EY SILT, YERY MOIST:			
											FIRM, LOW PLASTICITY, SLOW DILATANO	-		
250		\Box					-				25,0 DARK GRANISH BROWN (2.544/2) VERY	SM		
											FINE TO MEDIUM GRAINED SAND. ROUND			

TO SUB-ANGULAR ; YERN SLIGHTLY MOIST; MODERATELY SORTED MINERAL GY: CLEAR MID MILKY QUARTE; BIDTITE: PYRITE; ULTRA MAFICS 35.0 LIGHT BROWNISH GRAY (Z.SY 5M/5W1 FINE TO MEDIUM GRAINED SAND, ROND TO SUB-ANGULAR, SUGITLY MOIST. HODERATELI-WIELLSGRIED. SMOKEL QUITETZ: BIOTITE. PIRITE: RED ANIS GREEN CHERT, POTASSIUM FEDSPAR 3/18/15 Signature (logging geologist): Date: Signature (reviewer): Date: jett e:\qa_qc\Draft Final Soil ID and Desrip SOP forms



Boring No. JW-SB/SGZ

Jervis Webb Project No.: J163007200 Page ___ of ___ Project: U.S. EPA Logged By: P. J. Phillips Client: Start Date: Location: South Gate, Ca. 3/17/15 Completion Date: Reviewed By: Grain Size & Well Symbol Sampled Remarks Distribution Depth Const. Interval 0 Visual/Manual description of soil (ASTM D 2488 / USBR 5005) (to nearest 5 %) Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, sand gravel Water levels, Other comments. f m c f 3 INCH THICK CONCRETE FLOOR 0.5 DAIZK BROWN (104R 3/3) SILTY, VERY FINE SM TO MEDIUM GRAINED SAND, ROUND TO SUB-ANGULAR, SLIGHTLI MOIST, MODERATELY SORTED MINERALOGY; CLEAR, FROSTED AND MILKY QUARTZ, BIOTITE; PYRITE ZIO SAME AS ABOVE WITH INCREASE IN 70 MOISTURE 50 5,0 SAME AS ABOVE WITH GRADATICHAL COLOR CHANGETO VERY DAIZKBROWN (10 yR 3/1) 1500 15.0 VETZY DARK BIZOWN (104R 3/2) SILTY CLAY/CLAYEN SILT, VETZY MOIST TO WIET: FIRM: SLOW DILIATANLY 252 75.0 DARK GIZAVISH BROWN (2.54 4/2) SANDY SM SILT/SILTY SAND, VERY FINE GRAINED; ROUND: MOIST; VERY WELL SORTED. MINERALOGY: CLEME AND MILKY QUART; BIOTHE, PIRITE CHERT 35C 35 TO LIGHT BROWNISH GRAY (Z.54 G/Z) FINE TO COARSE GRAINED SAND, ROUND TO SUB-ANCIULAR; MOIST; POOTELY MINERALOGY: CLEAR, MILKY, FROSTED SMOKET QUARTZ POTASSIUM FELDSPAR, CHERT BIOTITE ; PIRITE Date: 3/17/15 Signature (logging geologist): Signature (reviewer): Date:



Boring JW-SB/SG ZZ-

Location: South Gate, Ca. 3/18/15 Completion Date: Reviewed By: Grain Size & Well Group Symbol Sampled Remarks Distribution Interval Visual/Manual description of soil (ASTM D 2488 / USBR 5005) Const. (to nearest 5 %) Description shall provide enough information so that a reviewer can understand the Driven Blows/ basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, sand gravel PID Water levels, Other comments. f m c f c 3 INCH THICK CONCRETE FLOOR 0.5 0,5 DARK YELLOWISH BROWN (10YR 4/4) SILTY, SM VERY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR. YERY SUGHTLY MOIST! MODERATELY SORTED: MINERALOGY: CLEAR AND MILKY QUARTZ, CHERT, POTASSIUM FELDSPAR; BIGTITE Z.O LIGHTOLINE BROWH (2.5 Y 5/4) MEDIM GRAINED SAND, ROUNDTO SUB-1ZOUND. VETZY SLIGHTLY WOIST; YERY WELL SORTED. MINEIZALOGY: CLEAR, FROSTED AND MILKY QUARTE! CHERT, POTASSIUMFELDSPAR! BIOTITE! PIRME 50 50 VERY DARKGRAYISH BROWN (2,543/2) SILTY SM VBZY FINE TO MEDIUM GRAINED SAND. ROUND TO SUB-ANGULAR; VERY MOIST! MODERATELY SORTED. MINERALOGY: CLEAR QUARTZ, BOTITE, PIRITE : ULTRA MATICS : CHERT 15.0 OUVEBROWN (Z.57 4/2) SILTY SAND (SAND) SM SILT, VERY FINE GRAINED; VERN) MOIST; 15,0 VERY WELL SORTED 75:0 DATEL GRANGH BROWN (Z,544/Z) SILTY 75.0 VERY FINE TO MEDIUMGRAINED SAND. ROUND TO SUB- ANGULAR: VEIZY MOIST. MODERATELY SORTED. MINERALOGY: CLEAR AND MILKY QUARTE.

	MEDIUM GRAINED SAND, R	CUMB TO SURS-
	ANGULAZ: VERY-SLIGHTUI	MOIST;
	MODERATELY - WELL SOR	TED.
	MINERALOGIVICLEAR, SU	uckey:
Signature (logging geologist):	Jan / Plats	Date: 3/18/15
Signature (reviewer):		Date:
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BIOTITE; PIRITE; ULTRA MAFICS

35.0 GRAYISH BROWN (2.54 5/2) VERY FINE TO SW

G	bane
GI	naile

U.S. EPA

Client:

Soils Log Form

Boring No.

Logged By: P. J. Phillips

JW-SB/SG ZZ

Project No.: <u>J163007200</u> Page Z of ZJervis Webb Project:

3118/15 Start Date:

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Depth		Blows /	_		% fines	Ĺ	% san		9 gra	6	max size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data	Group Symbol	Annulus	Casing
	Ω	B	Re	_ PID _ FID	%	f	m	С	f	с	ш	Water levels, Other comments.	<u>5</u>		
	X				_							FROSTED QUARTZ; POTASSIUM FELDSPAR; RED AND GIZEEN CHERT; BIOTITE; PYRTE			
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	Signature (logging geologist): Date: 3/18/15 Date:														

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Boring No.

JW-SB/SG 23

Project:

Jervis Webb

Project No.: J163007200

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Client:

U.S. EPA

Start Date: 3/19/15

Logged By: P. J. Phillips

Date:

Location: South Gate, Ca. 3/19/15 Completion Date: Reviewed By: Grain Size & Well Group Symbol Sampled Remarks OVA Depth Distribution Const. Interval Visual/Manual description of soil (ASTM D 2488 / USBR 5005) (to nearest 5 %) Description shall provide enough information so that a reviewer can understand the Driven Blows / sand gravel basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, PID FID % fm c f c Water levels, Other comments. 4 INCH THICK CONCRETE FLOOR 0,5 0.5 DATEK GRANISH BROWN (Z.57 3/2) VETZY FINE SW TO MEDIUM GRAINED SAND, SUB- ROUND TO SUB-ANGULAR; MOIST MODERATELY-WELL MINERALOGY: CLEAT ANDMILLE QUARTE; BIOTITE CHERT BOTITE POTASSIUM FELDSPAR Z,O Z.O SAME AS ABOVE 510 5.0 YERY DARK GRAYISH BROWN (10483/Z) 5M SILTY VERY FINE TO COATESE GRAINED SAND. ROUMD TO SUB-ANGULAR: VERY MOIST! MODERATELY- WELL SORTED. MINERALOGY: CHERT: QUARTE; BIOTE PYRITE 15.0 DARIK GIZAYISH BROWN (Z.57311) SILTY (1812)SW 15,0 FINE TO FINE GIZANED SAND, ROUMD; VERY MOIST, VERY WELL SORTED. MIMERALOGY; QUARTE; CHERT; BIOTITE; POTASSIUM FELDSPAR: PYIZITE 25.0 VERY DARK GRAY (2,5 Y 3/1) SILTY SAND/ BM 510 SANDY SILT. ROUND; YETCY MOIST! MODERATELY-VUELL SORTED. MINERALOGY! QUARTZ; BIOTITE! PURITE UTICA MAFICS 35.0 GRAVISH BROWN (Z.5 Y 5/Z) FINE TO 300 MEDIUM GRAINED SAND, ROUND TO SUB. ANGULATZ: SUGHTLY MOIST! MODERATEET -WELL SORTED. MINERALOGY: CLEAR, SMOKEY ANDMILLEY QUARTZ; CHERT; POTASSIUM FELDSMZ; BIOTITE, PYRITE Date: 3/R/15

Signature (logging geologist):

Signature (reviewer):



Boring No. JW-SB/SG Z 4

Date:

 Project:
 Jervis Webb
 Project No.:
 J163007200
 Page / of /

 Client:
 U.S. EPA
 Start Date:
 3/17/15
 Logged By:
 P. J. Phillips

 Location:
 South Gate, Ca.
 Completion Date:
 3/17/15
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						-					ANGULAR; SLIGHTLY MOIST; MODERATEN-			t
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											TO SUB-ANGULAR: SUGHTLY MOIST;			
											MODERATEN-WELL SOIZTED,			I
											MINERALOGY: CLEAR, FROSTED, MILLY MYD			1
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Signature (reviewer):



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Project:	Jervis Webb	Project No.:	J163007200		Page of
Client:	U.S. EPA	Start Date:	3/16/15	Logged By:	P. J. Phillips
Location:	South Gate, Ca.	Completion Date:	3/16/15	Reviewed By:	

Depth		ipled erval	OVA		Ι	irain Distri	Size bution	& on		Reviewed By: Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	ymbol	Well Const	
ng [Driven Blows /	Recovery	PID FID	% fines	sa	% and m c	gra	% vel	nax size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data, Water levels, Other comments.	Group Symbol	Annulus	Casing
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										TO MEDIUM GRAINEYS SAND, ROUND TO			L
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500				_				ļ		5.0 SAME AS ABOVE WITH CYZAWATTOMAL			_
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						+	-			BROWN (10 YR 3/Z) AND AN INCIZETSE IN			-
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	_	-	-		H	-	1	-	-	4/2) AND INCREASE IN MOISTURE		-	\perp
50	+			-	\vdash		-	-		35,0 LIGHT BROWAISH GRAY (Z.54 6/Z) MEDIUM	54		+
	+			-	+	+	+	-	-	GRAINED SALID . ROUND TO SUB-ANGULTE,	24.	-	+
	+					+				VERY SUGHTLY MOIST; VERY WELL SORTED.			-
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Signature (reviewer):

Date:



	
Boring No.	JW-SB/SG Z6

Project:	Jervis Webb	Project No.:	J163007200			Page/_ of/_
Client:	U.S. EPA	Start Date:	3/16/	15	Logged By:	P. J. Phillips
Logotion	South Gate, Ca.	Completion Date:	3/16/	15	Davious Du	

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	х										4INCH THICK CONCRETE FLOOR		
2 <u>,5</u>											OS DARK GIZATISH BROWH (10412 4/2) YERY	SW	
											FINE TO COARSE GRAINED SAND, ANGULAR		
											TO ROUND; MOIST, POORLY SOIZTED,		
											MINERALOGY: CLEAR AND MILKY QUARTE.		
					77 25					1	PIRITE; BIOTITE; CHERT, ULTIZA WAFKS		
7								Ť					
Q _t								Ī			Z.O SAME AS ABOVE		
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								t			SILTY VERYFINE TO MEDIUMGRAINED	, ,	
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											MINERALOGY: CLEAR, MILKY, FROSTED, LAD		
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											FELISPAR	,	
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2 /0											15,0 GRAYBH BROWN (2,54 5/2) SILTY VERY	544	
											FINE TOFINEGRAINED SAND, ROUND		
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All or Miles											MODERATELY-WELL SORTED.		
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Signature (logging geologist):

Date: 3/16/15

Date: Date:

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 Project:
 Jervis Webb
 Project No.:
 J163007200
 Page | of |

 Client:
 U.S. EPA
 Start Date:
 3/16/15
 Logged By:
 P. J. Phillips

 Location:
 South Gate, Ca.
 Completion Date:
 3/10/15
 Reviewed By:

Depth	Sampled Interval			VA			Distr	nin Size & stribution nearest 5 %)			Remarks Visual/Manual description of soil (ASTM D 2488 / USBR 5005)	Group Symbol	ı	ell nst.
De	iven	Blows /	Recovery		fines	s	% sand		% avel	x size	Description shall provide enough information so that a reviewer can understand the basis of the classification. Include also: Sample IDs; Start/Stop Times; Drilling data,	S dno	Annulus	Casing
	\vdash	m	Rec	_ PID _ FID	%	_	m c	f	С	Ш	Water levels, Other comments.	ğ		
Q5	X										O.S DARKGRATISH BROWN (10YR 4/Z) SILTY TINE. TO MEDIUM GRAINED SAND, WELL ROUNDED TO SUB-ANGULAR; VERY MOIST; MODERNIES INELL SORTED. MINERALOGY: CLEAR, FROSTED, MILKY QUARTE, BIOTITE; PYRITE; CHERT			
2.0											ZO SAME AS ABOVE			
5.0											5.0 SAME AS ABOVE WITH INCIREASE IN SILTY SAND AND MOISTURE			
15,0											15.0 SAME AS ABOVE WITH CONTINUED INCIDENCE IN MOISTURE			
250											ZOODAEK OHYE BROWN (Z.5 / 3/3) SILTY SAND/SANDY SILT, VERZY FINE GRAINED; WELL ROUNDED; MOIST, VEIZY - WELL SORTED	SM		
300											30,0 DARK OLIVE BROWN (2.5 Y 3/3) SILTYCLAND CLAMEY SILT. FIRM; MOIST, LOW PLASTISITY	scls	M	
								\perp				4 -		

Signature (logging geologist):

Date: 3/19/15

Date: 3/19/15



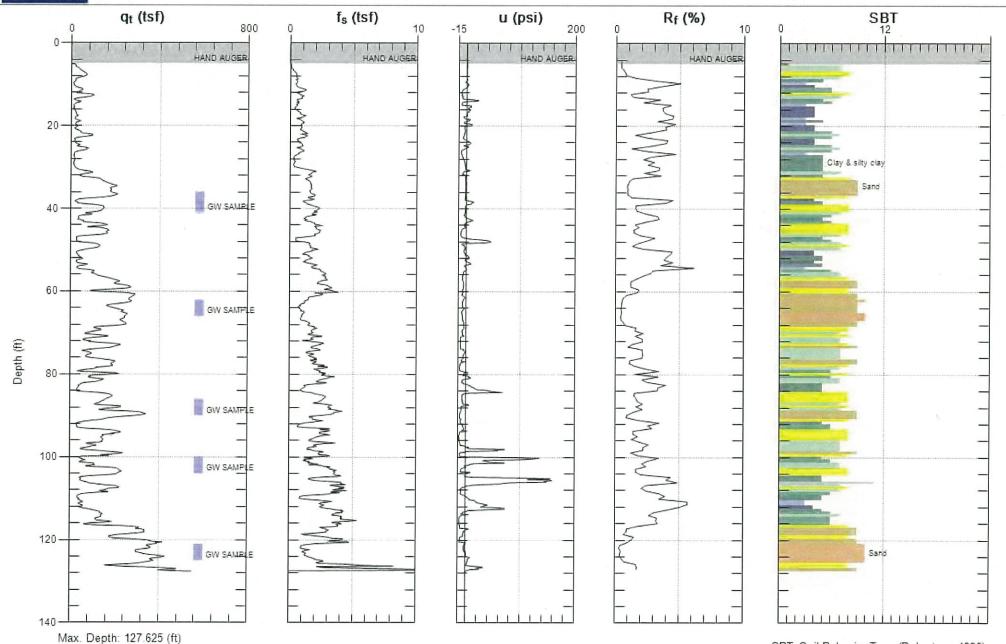
Avg. Interval: 0.656 (ft)

Site: SOUTHERN AVE.

Sounding: JW-CPT-1

Engineer: D.GRUBER

Date: 3/27/2013 08:08





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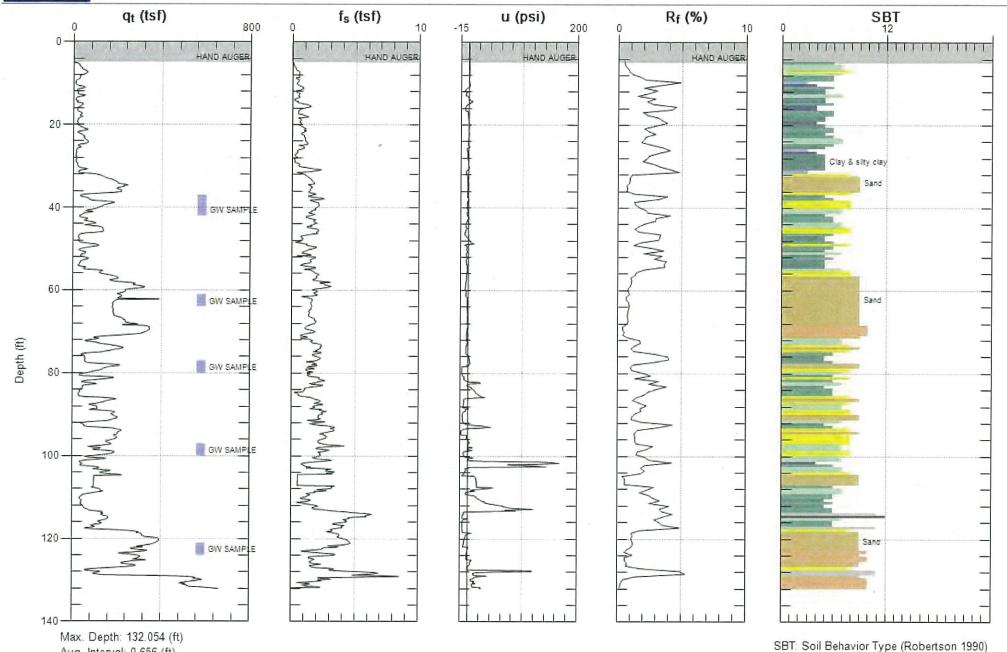
Avg. Interval: 0.656 (ft)

Site: SOUTHERN AVE.

Sounding: JW-CPT-2

Engineer: D.GRUBER

Date: 3/26/2013 07:33





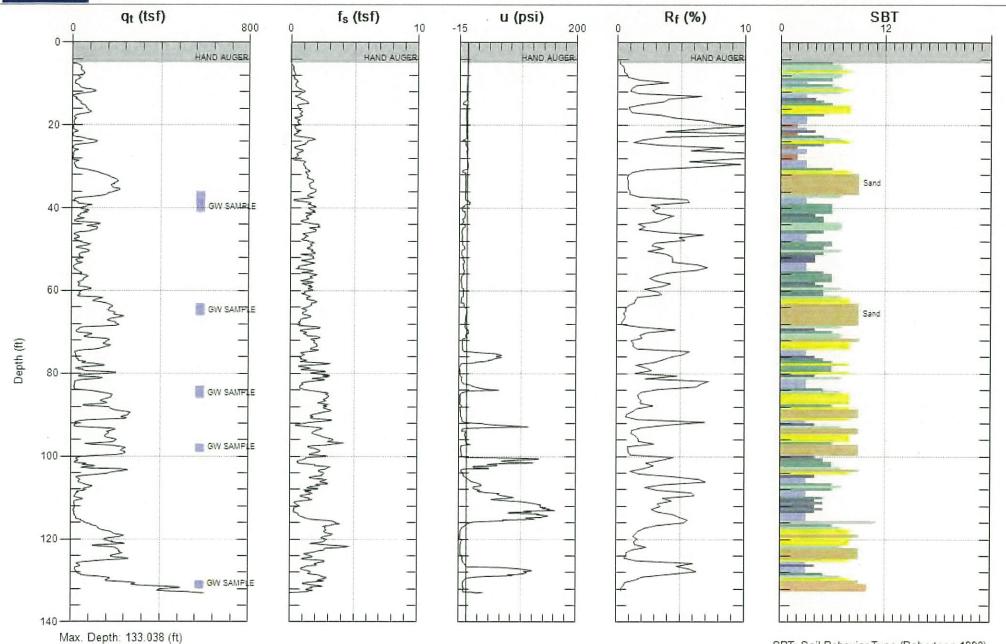
Avg. Interval: 0.656 (ft)

Site: SOUTHERN AVE.

Sounding: JW-CPT-3

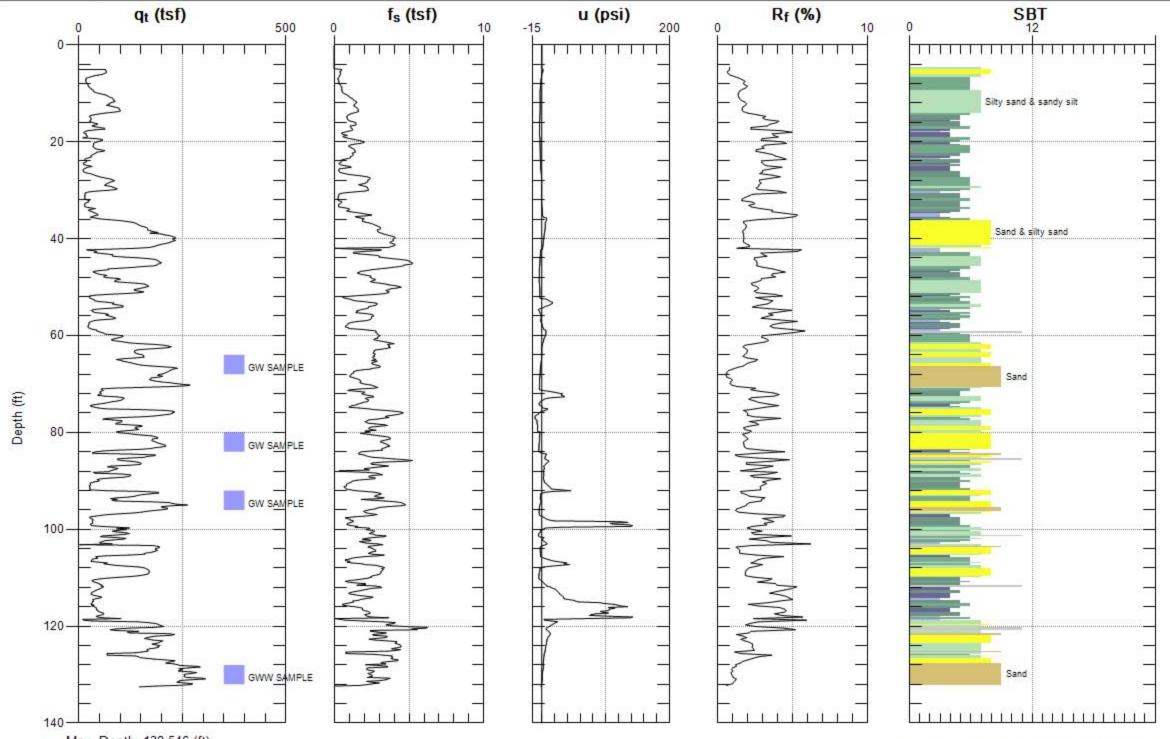
Engineer: D.GRUBER

Date: 3/25/2013 07:42





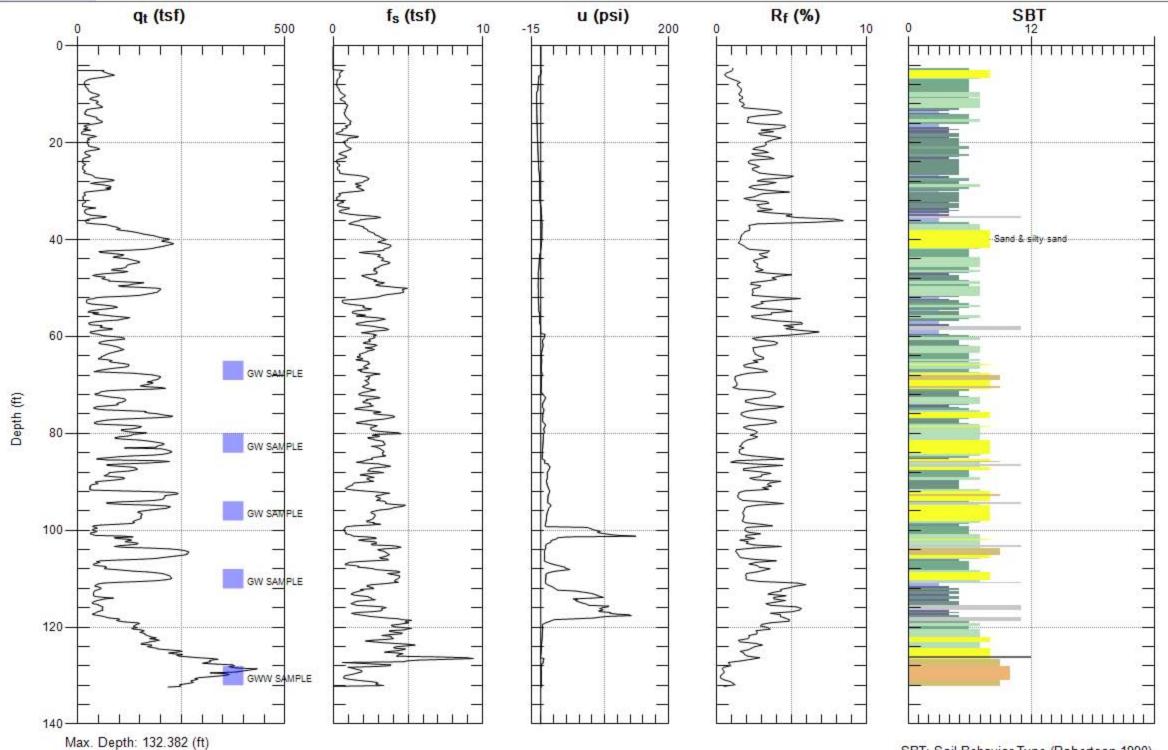
Site: JERVIS WEBB Sounding: CPT-4 Engineer: P. PHILLIPS Date: 6/15/2015 08:37



Max. Depth: 132.546 (ft) Avg. Interval: 0.328 (ft)



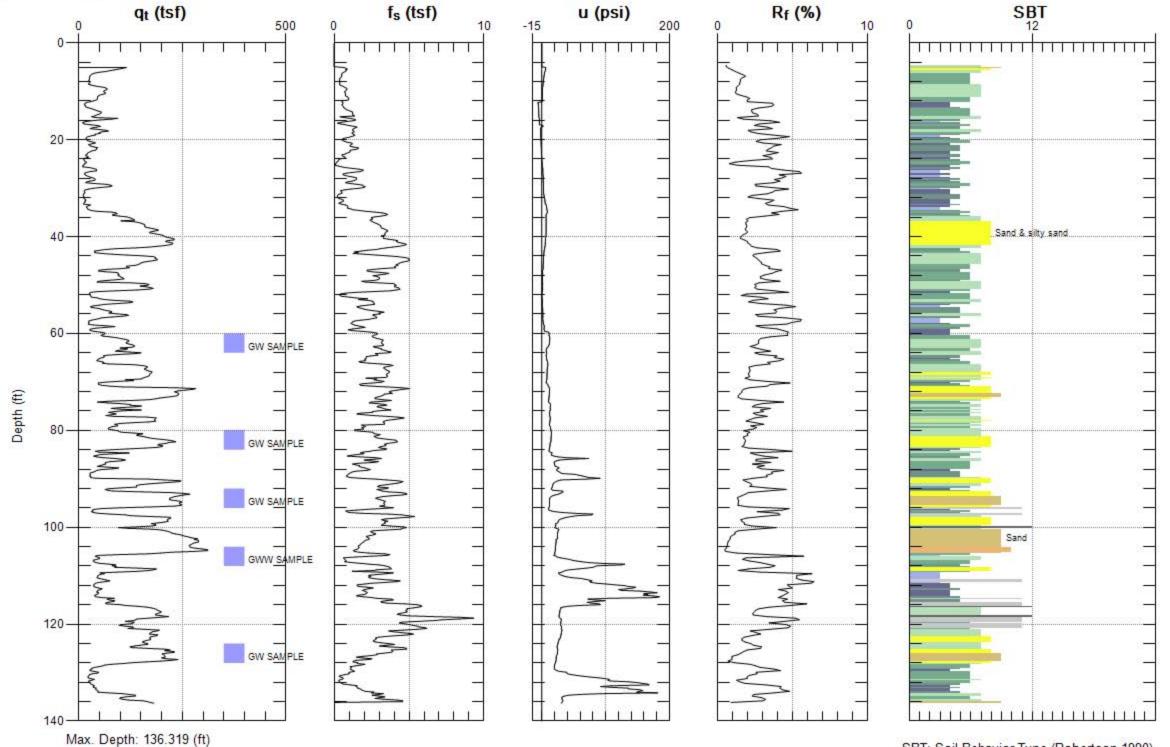
Site: JERVIS WEBB Sounding: CPT-5 Engineer: P. PHILLIPS
Date: 6/16/2015 08:10



Avg. Interval: 0.328 (ft)



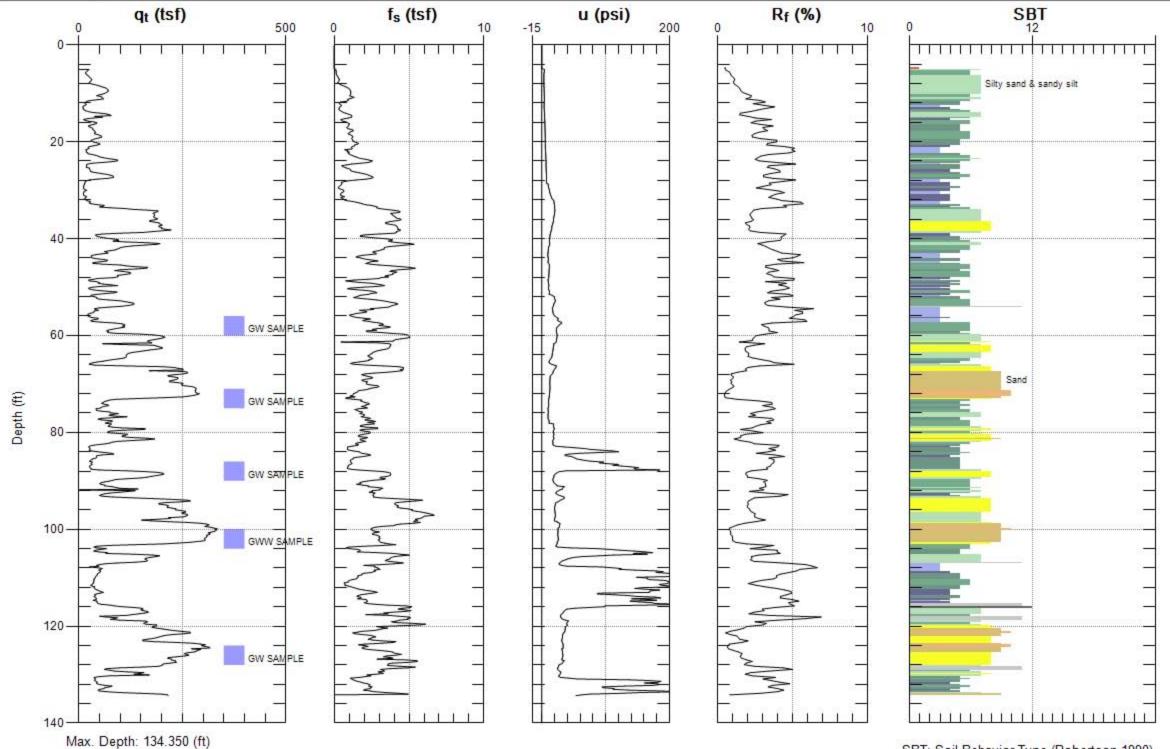
Site: JERVIS WEBB Sounding: CPT-6 Engineer: P. PHILLIPS Date: 6/18/2015 06:10



Avg. Interval: 0.328 (ft)



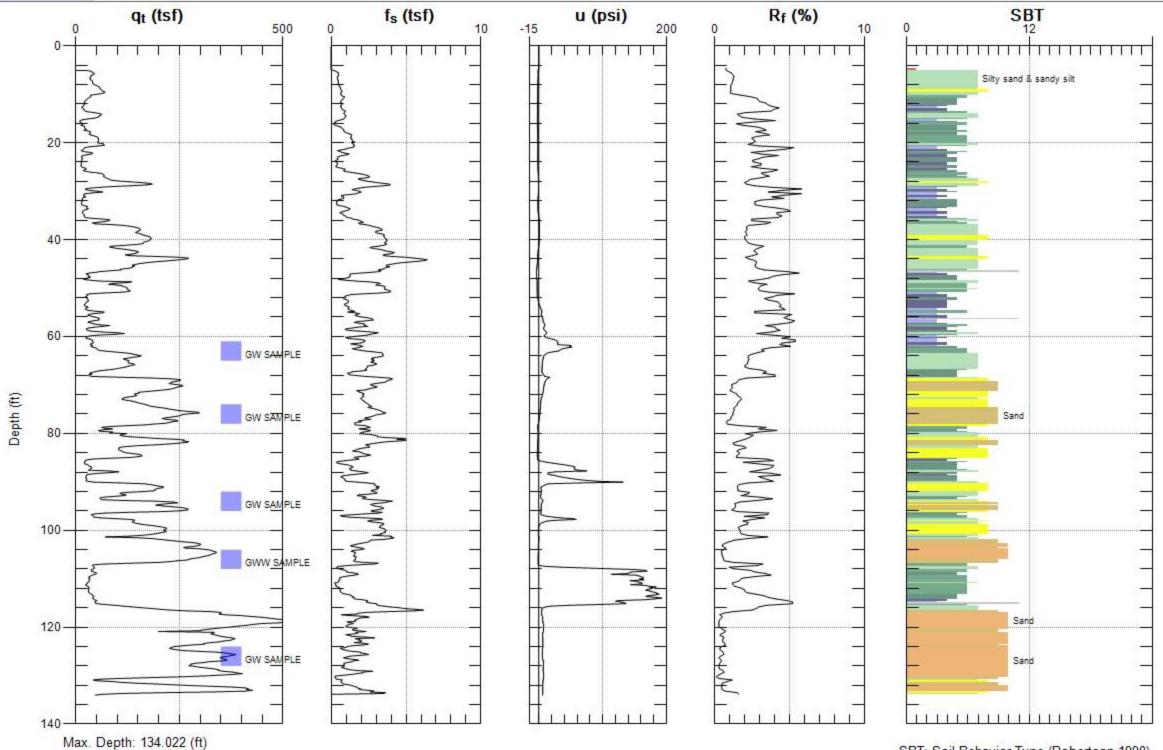
Site: JERVIS WEBB Sounding: CPT-7 Engineer: P. PHILLIPS
Date: 6/18/2015 07:11



Avg. Interval: 0.328 (ft)



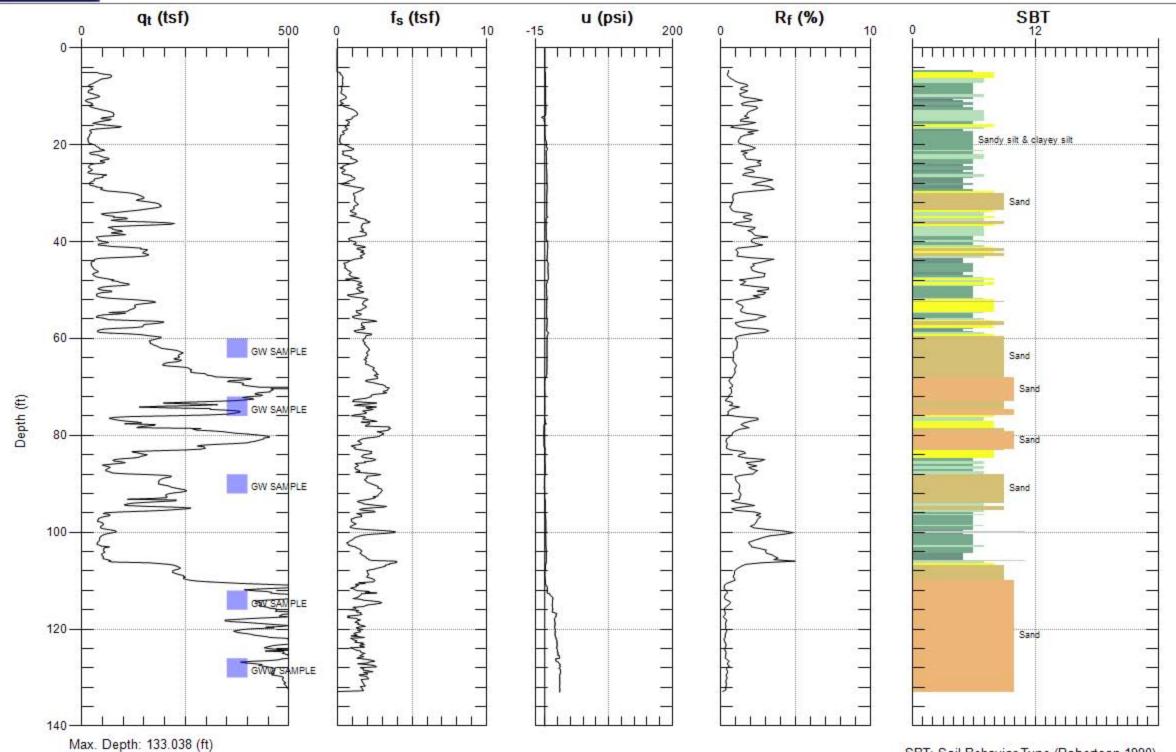
Site: JERVIS WEBB Sounding: CPT-8 Engineer: P. PHILLIPS
Date: 6/17/2015 07:32



Avg. Interval: 0.328 (ft)



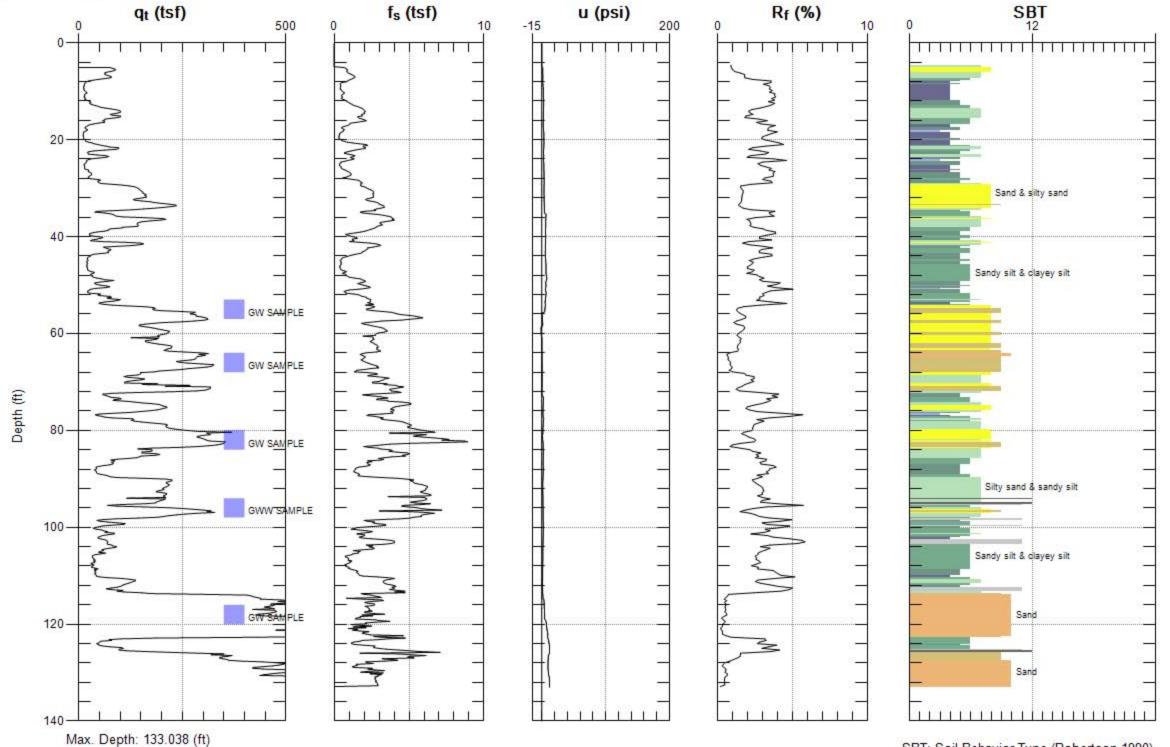
Site: JERVIS WEBB Sounding: CPT-9 Engineer: P. PHILLIPS Date: 6/23/2015 07:11



Avg. Interval: 0.328 (ft)



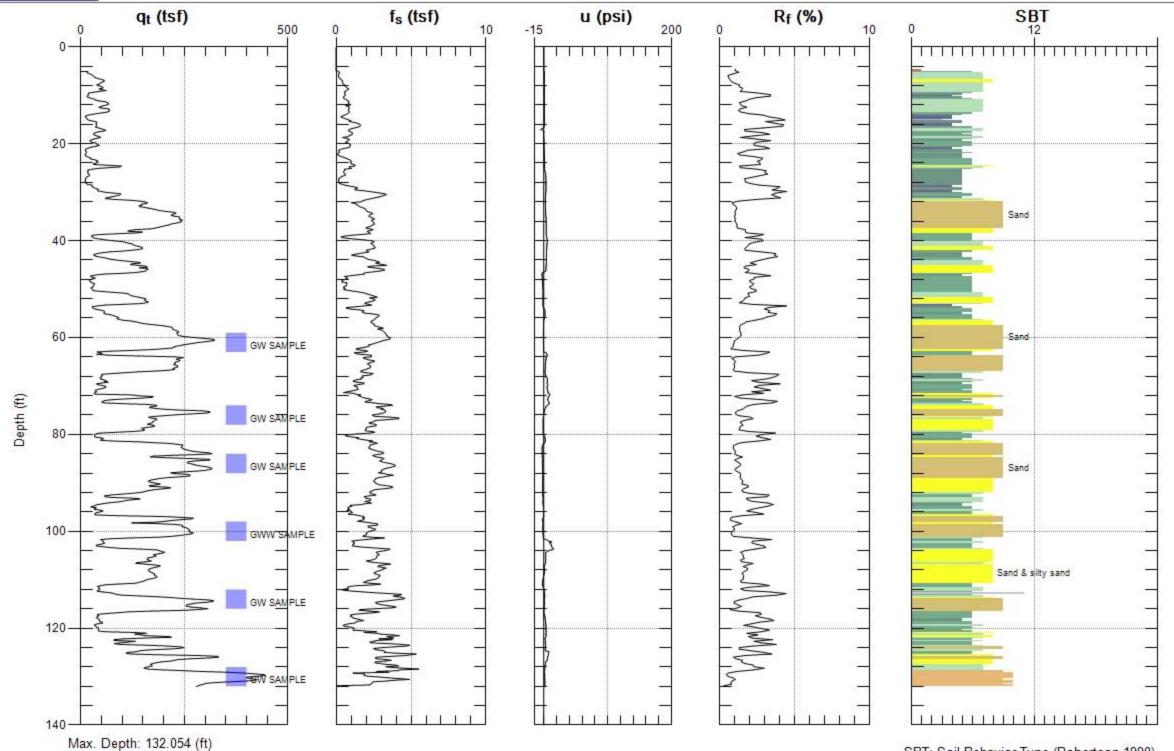
Site: JERVIS WEBB Sounding: CPT-10 Engineer: P. PHILLIPS Date: 6/22/2015 07:05



Avg. Interval: 0.328 (ft)



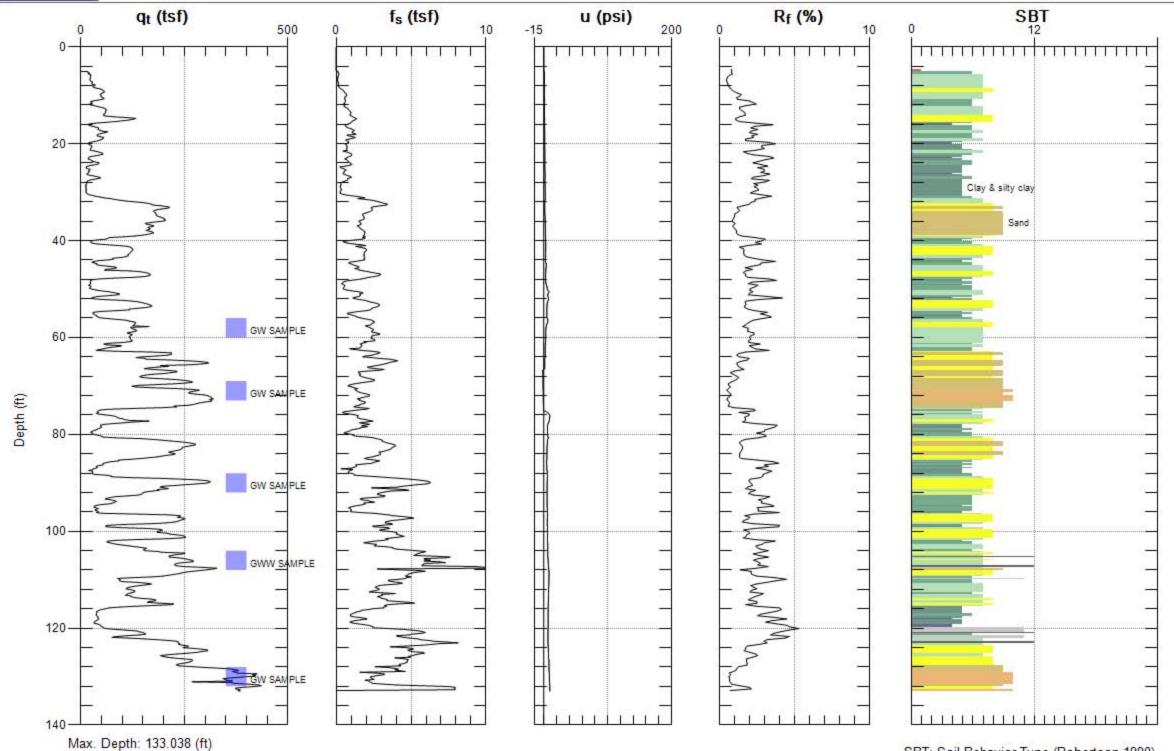
Site: JERVIS WEBB Sounding: CPT-11 Engineer: P. PHILLIPS Date: 6/29/2015 07:35



Avg. Interval: 0.328 (ft)



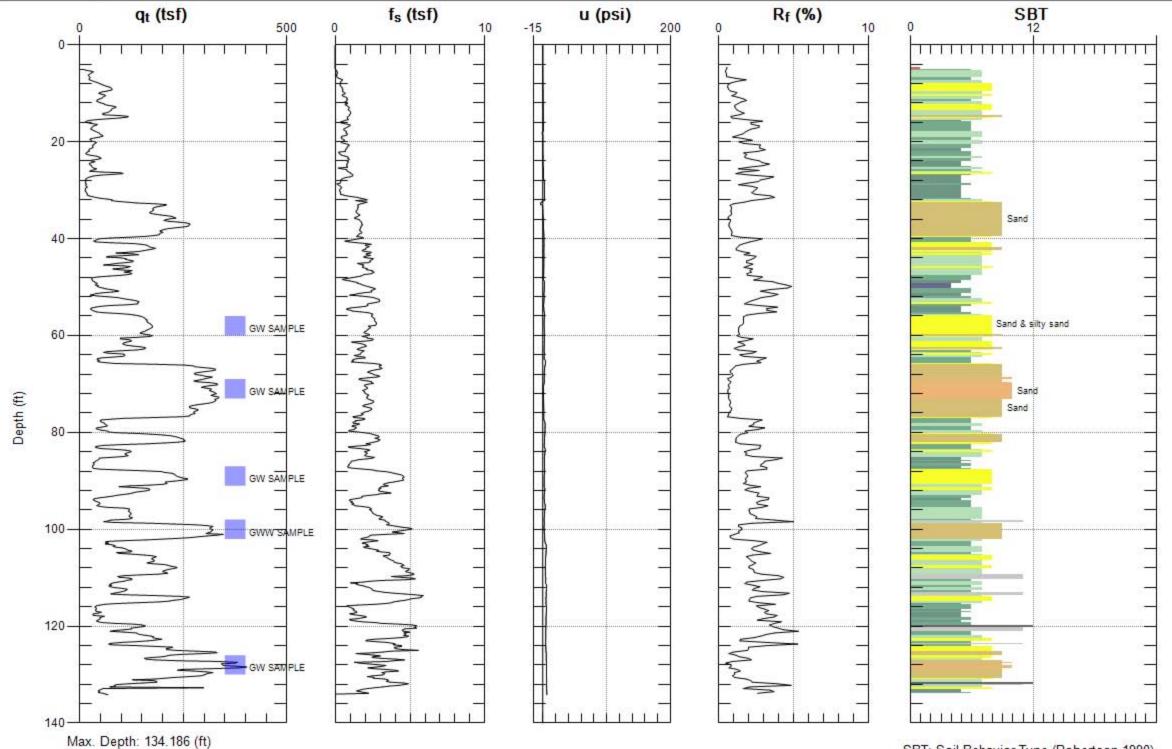
Site: JERVIS WEBB Sounding: CPT-12 Engineer: P. PHILLIPS Date: 6/26/2015 07:06



Avg. Interval: 0.328 (ft)



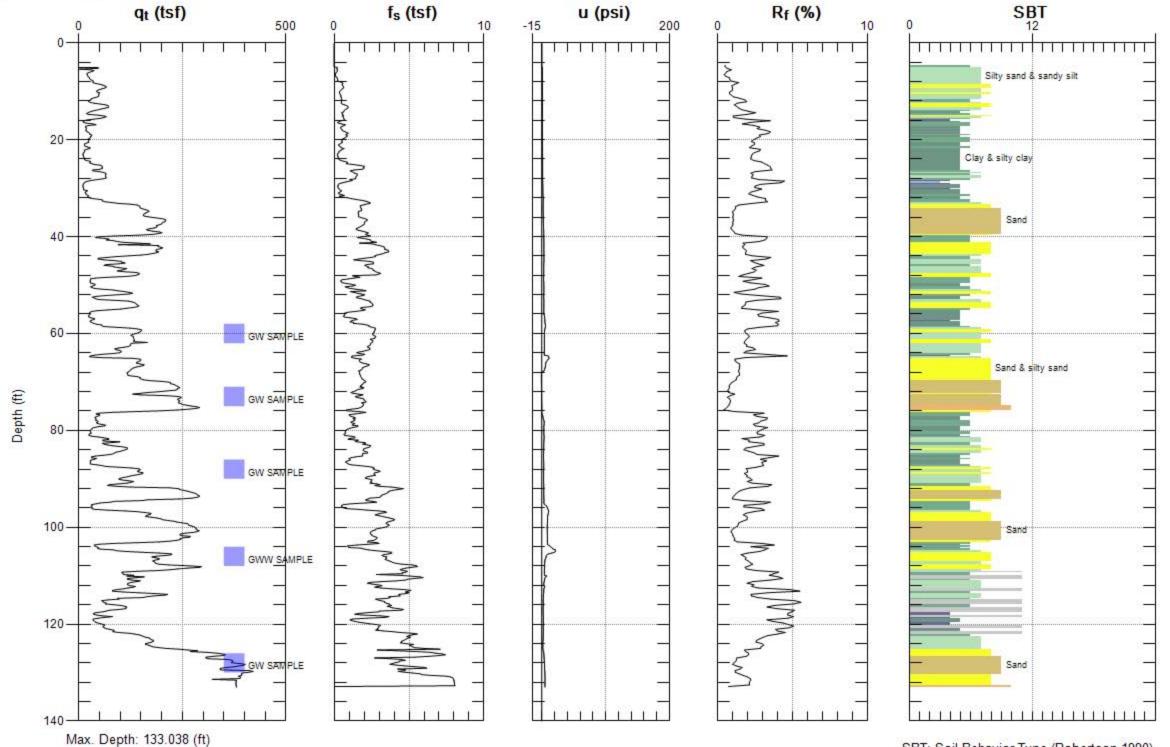
Site: JERVIS WEBB Sounding: CPT-13 Engineer: P. PHILLIPS Date: 6/25/2015 07:23



Avg. Interval: 0.328 (ft)



Site: JERVIS WEBB Sounding: CPT-14 Engineer: P. PHILLIPS Date: 6/24/2015 07:24



Avg. Interval: 0.328 (ft)

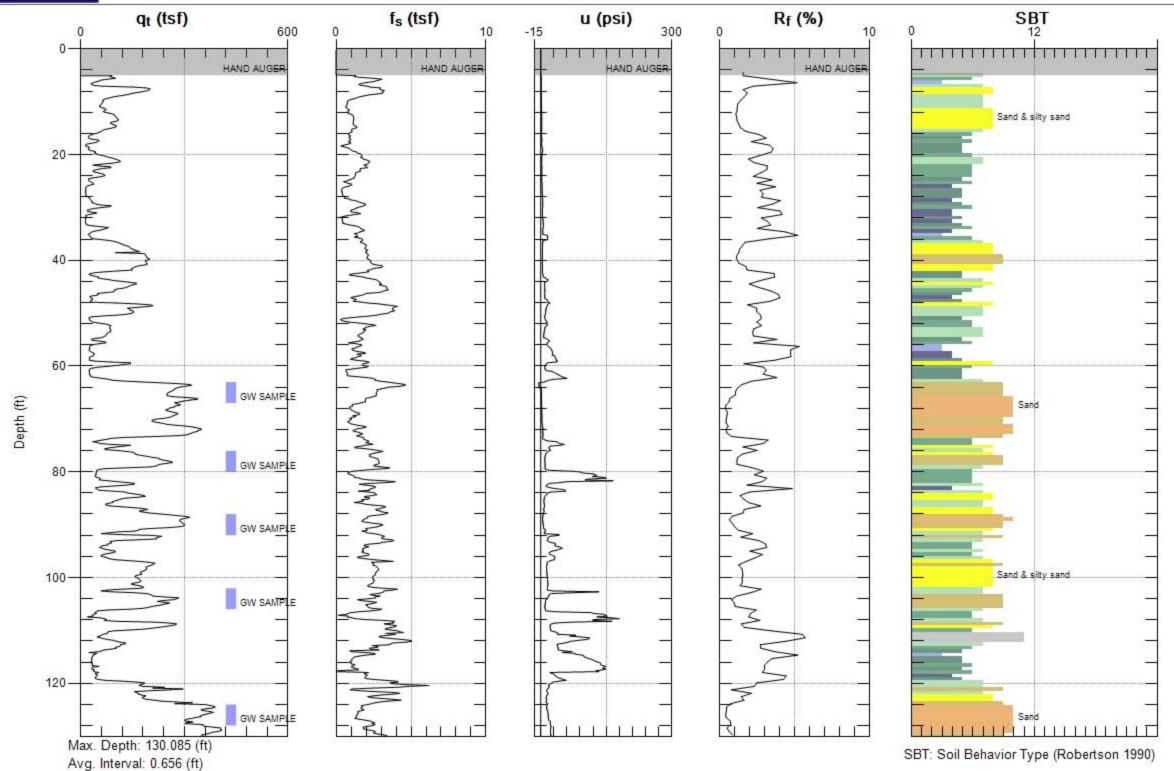


Site: JERVIS B. WEBB

Sounding: CPT-15

Engineer: P.PHILLIPS

Date: 10/26/2015 09:01



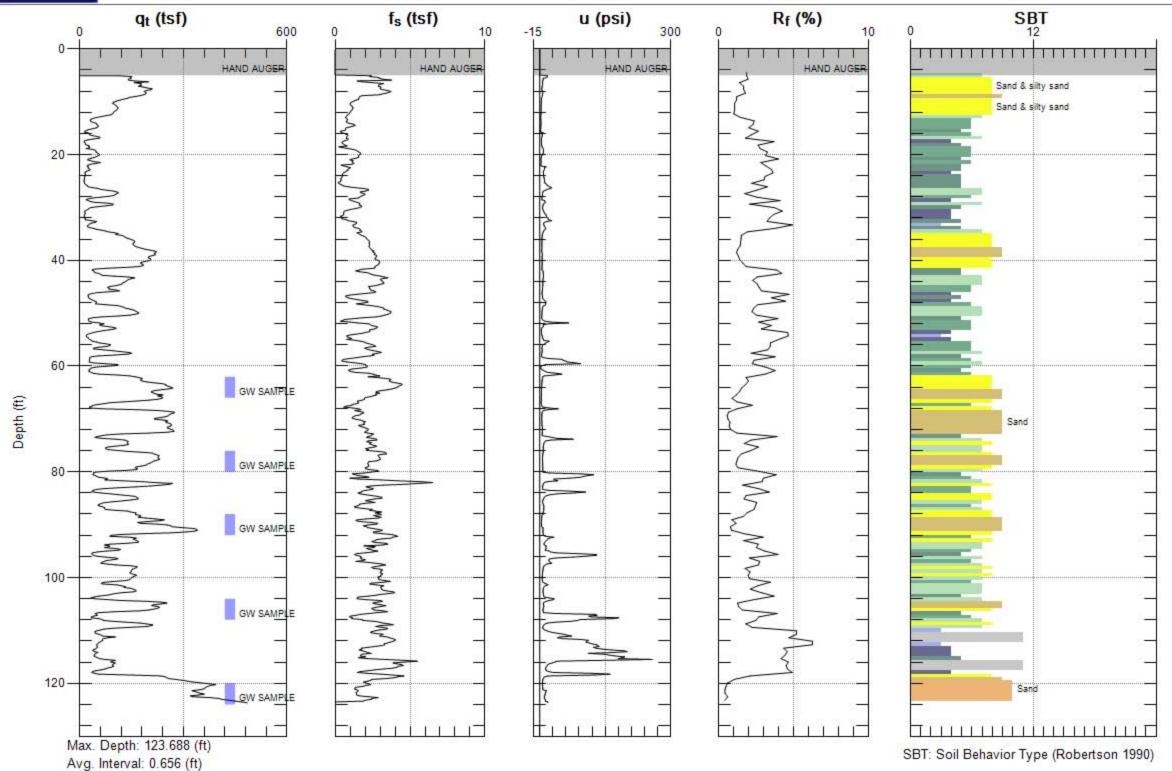


Site: JERVIS B. WEBB

Sounding: CPT-16

Engineer: P.PHILLIPS

Date: 10/27/2015 09:50



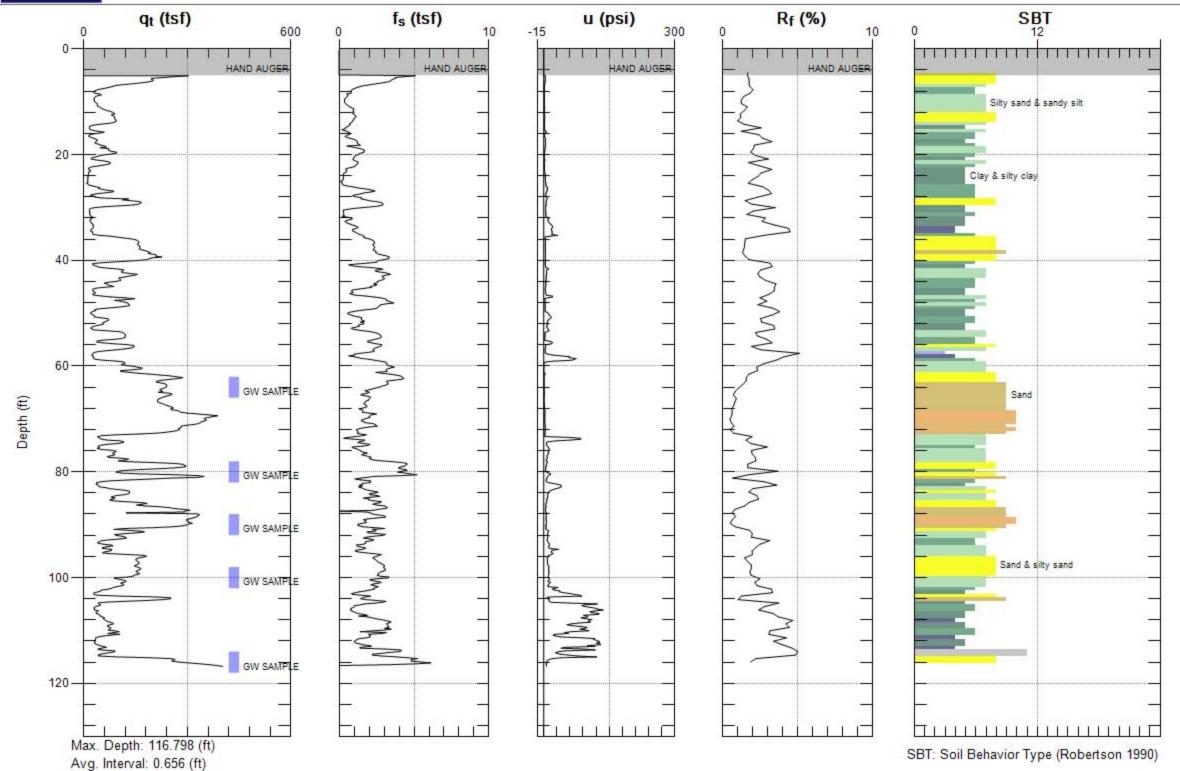


Site: JERVIS B. WEBB

Sounding: CPT-17

Engineer: P.PHILLIPS

Date: 10/28/2015 07:55



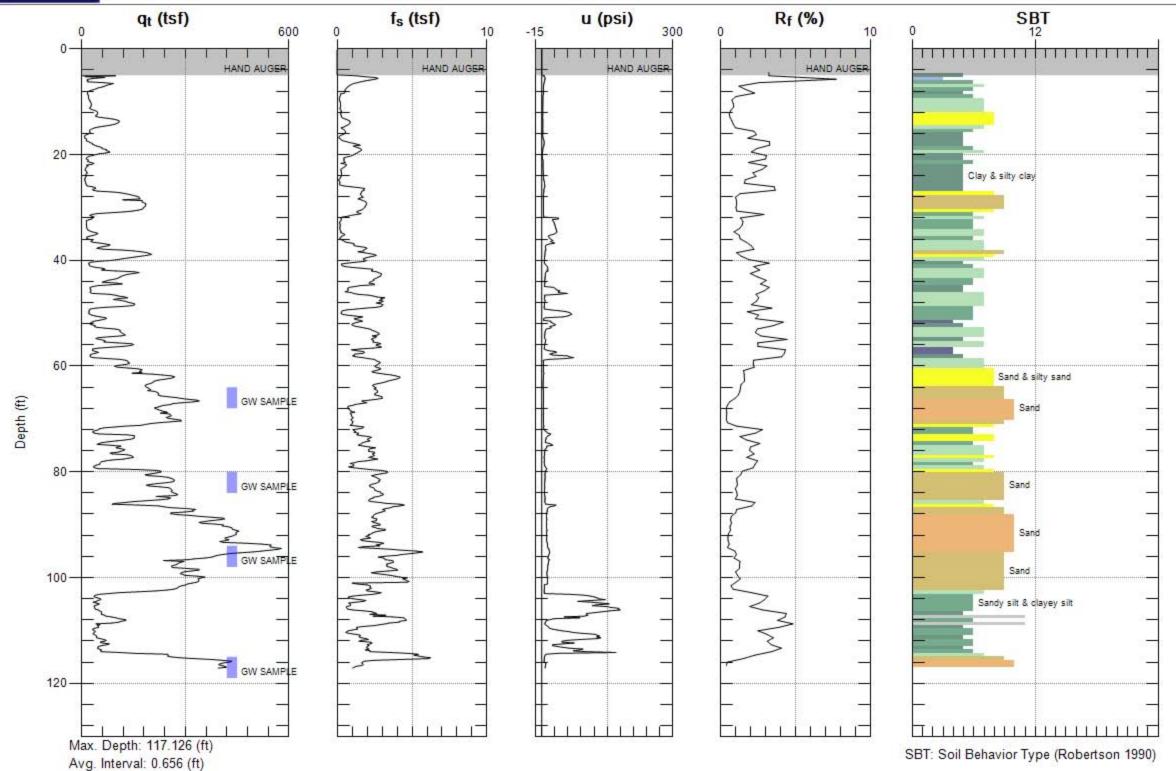


Site: JERVIS B. WEBB

Sounding: CPT-18

Engineer: P.PHILLIPS

Date: 10/29/2015 07:44



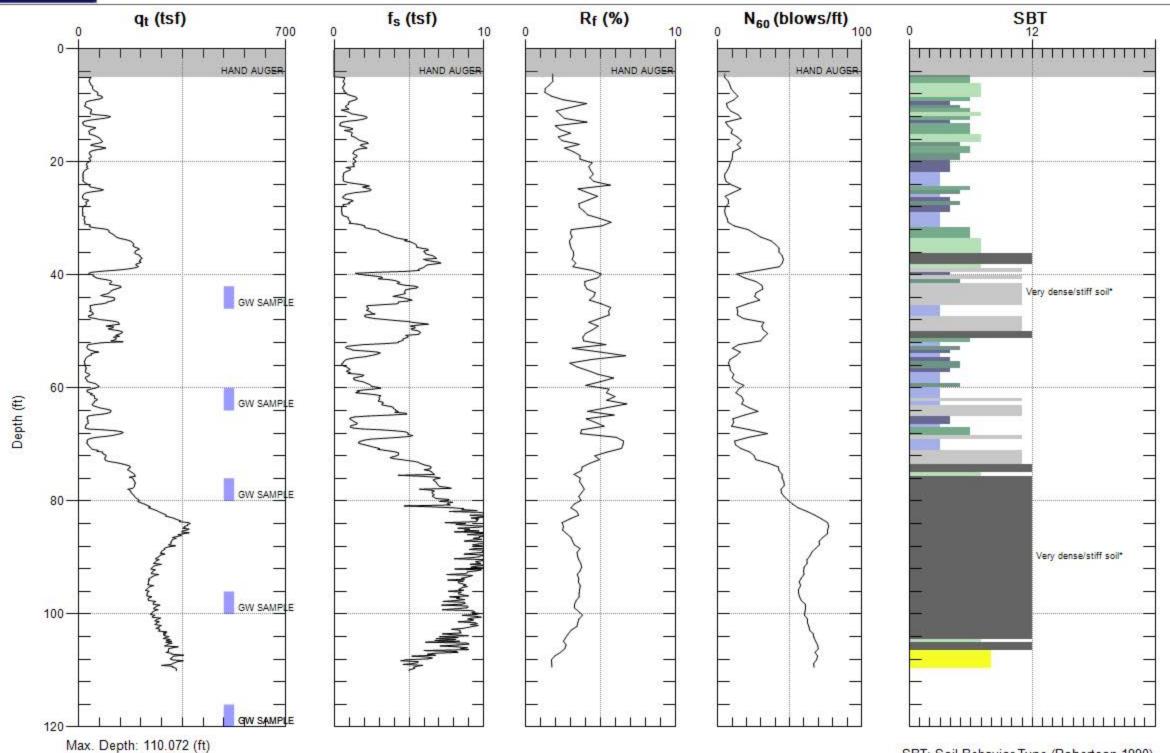


Site: SAIA

Sounding: Jw-CPT-20

Engineer: R.LEONG

Date: 8/16/2016 07:45



Avg. Interval: 0.656 (ft)

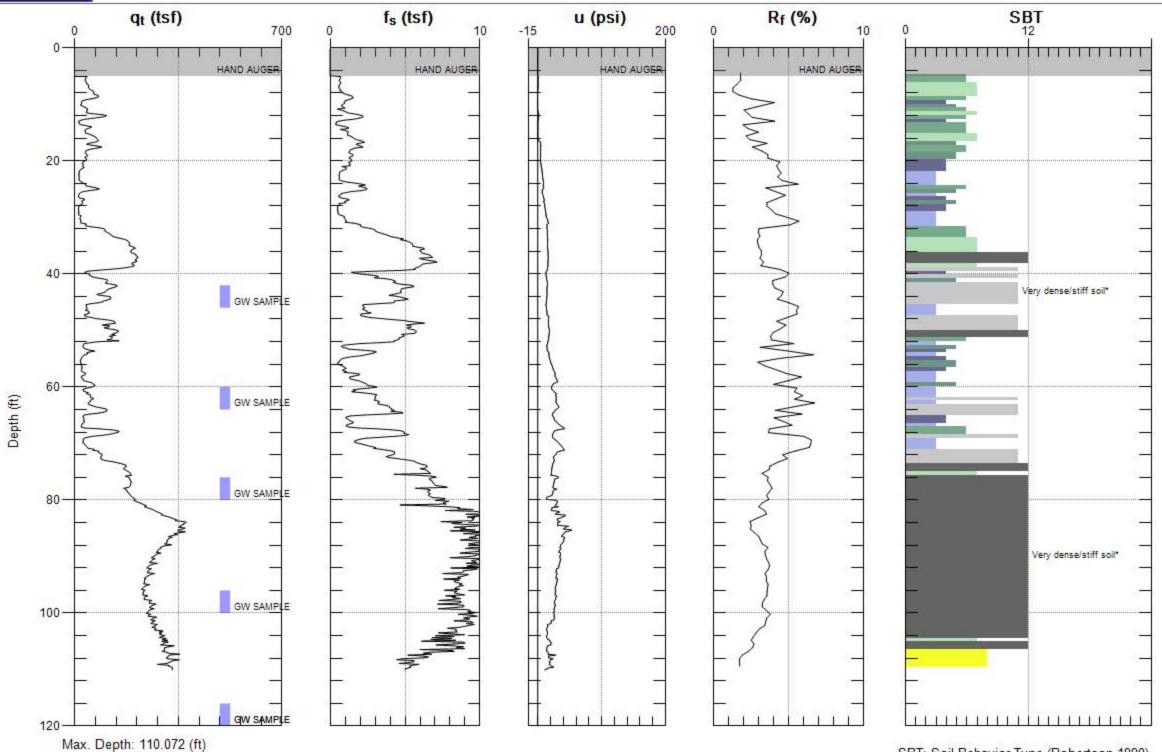


Site: SAIA

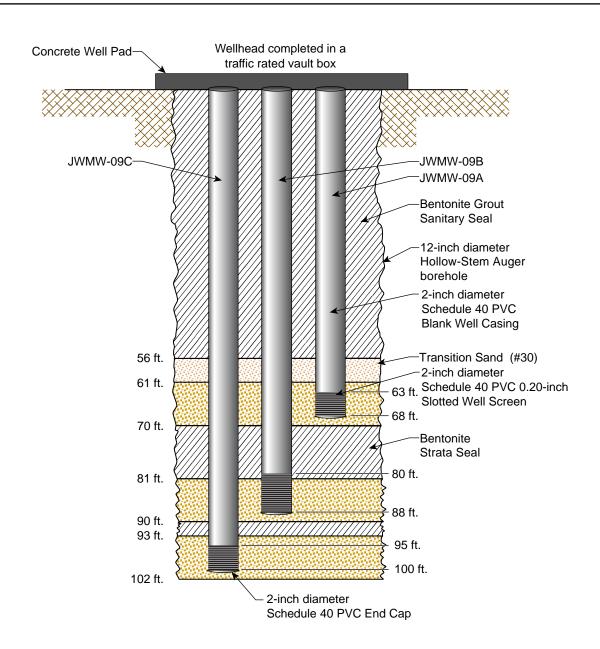
Sounding: Jw-CPT-20

Engineer: R.LEONG

Date: 8/16/2016 07:45



Avg. Interval: 0.656 (ft)





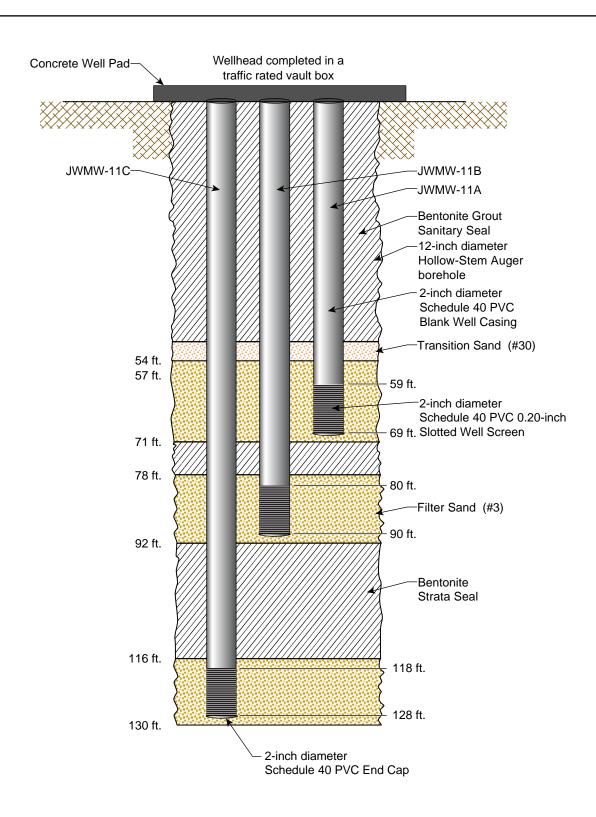


Jervis B. Webb RI_FS\13.0 Graphics\JWMW_10_AsBuilt.ai

P:\EPAR9\0072 TO 071-RICO-09WR,

Jervis Webb Company Superfund Site Los Angeles County, California US Environmental Protection Agency

Figure A5 JWMW-10 As Built







P:\EPAR9\0072 TO 071-RICO-09WR, Jervis B. Webb RI_FS\13.0 Graphics\JWMW_12_AsBuilt.ai

Jervis Webb Company Superfund Site Los Angeles County, California US Environmental Protection Agency

Figure A7 JWMW-12 As Built Concrete Well Pad-

JWMW-13C

53 ft. 58 ft.



Wellhead completed in a

traffic rated vault box

JWMW-13B JWMW-13A

borehole 2-inch diameter Schedule 40 PVC Blank Well Casing Transition Sand (#30)

60 ft.

90 ft.

100 ft.

118 ft.

128 ft.

Bentonite Grout Sanitary Seal 12-inch diameter Hollow-Stem Auger

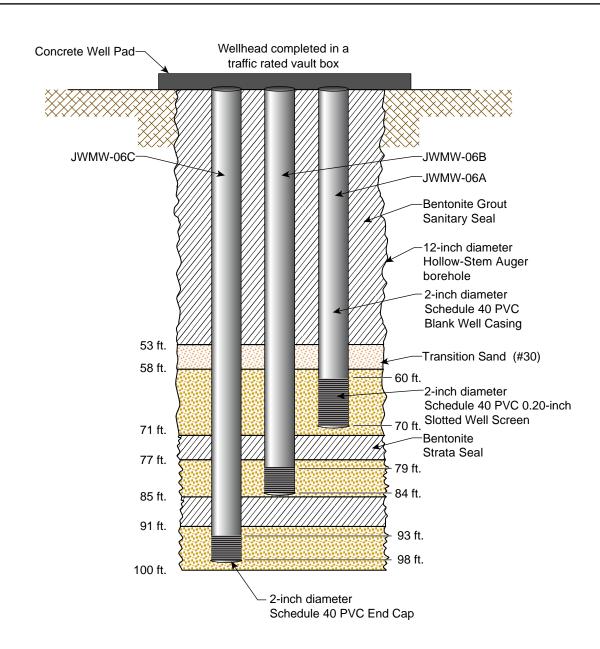
2-inch diameter

70 ft. Slotted Well Screen

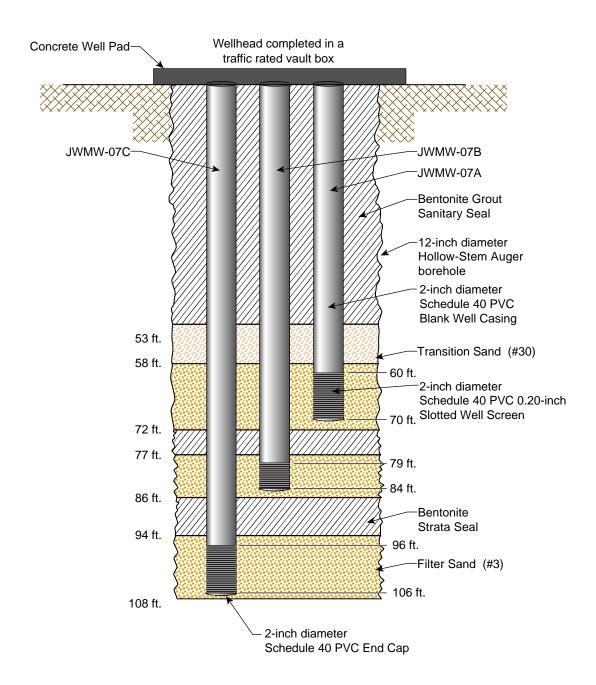
Filter Sand (#3)

Bentonite Strata Seal

Schedule 40 PVC 0.20-inch









Wellhead completed in a

Concrete Well Pad-



